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HANDBOOK



Queensland University of Technology

Gardens Point campus

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Kelvin Grove campus

Victoria Park Road, Kelvin Grove, Brisbane

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Kedron Park campus

Kedron Park Road, Lutwyche, Brisbane

Postal Address: PO Box 117 Kedron Q 4031

Telephone: (07) 864 2111

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Carseldine campus

Beams Road, Carseldine, Brisbane

Postal Address: Beams Road Carseldine Q 4034

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Sunshine Coast centre

Windsor Road, Nambour Q 4560

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General Information

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PREFACE

History

The Queensland University of Technology (QUT) was created in January 1989 by redesignation of the Queensland Institute of Technology (QIT). QIT had its origins in the Central Technical College, which was established in 1914 on what is now the University's Gardens Point campus. On its formation in 1965, QIT absorbed the professional courses offered by the Central Technical College and in its first year enrolled some 2000 part-time students.

In May 1990, QUT amalgamated with the Brisbane College of Advanced Education (BCAE), a large multi-campus institution specialising in the arts, business, education and the social sciences. BCAE was formed by an amalgamation that took place in January 1982, its precursors being the Kelvin Grove, Mount Gravatt and North Brisbane Colleges of Advanced Education and the Brisbane Kindergarten Teachers' College. These institutions were established, under other designations, in 1914, 1969, 1961 and 1907 respectively. The Mount Gravatt campus of BCAE was transferred to Griffith University in January 1990 prior to BCAE commencing amalgamation negotiations with QUT.

The institution resulting from the amalgamation of BCAE with QUT has retained the title Queensland University of Technology. It is a major university in the Australian context with a broad academic profile and an increasing involvement in research and postgraduate education. QUT has an enrolment approaching 26,000 students and expectations of sustained growth. It currently has campuses at Carseldine, Kedron Park, Kelvin Grove and Gardens Point, all in metropolitan Brisbane, and is sponsoring the development of a University College on the Sunshine Coast, north of Brisbane.

Mission

Within its mission statement QUT has identified three main goals:

- **Teaching** – to ensure that its graduates acquire knowledge, professional competence, a sense of community responsibility, and a capacity to continue their professional and personal development throughout their lives.
- **Research** – to advance and apply knowledge germane to the professions and to the communities with which it interacts, and relevant to the enhancement of economic, cultural and social conditions.
- **Service** – to contribute to the development of Australia's international responsibility and competitiveness; to enhance QUT's relationship with the professions; and to increase community awareness of issues through professional service and social commentary.

Council

The Council is the University's governing body, with responsibility for administering the University in accordance with the *Queensland University of Technology Act 1988-1990*. The Council consists of 22 members, of whom eight are nominees of the Minister for Education, one is a nominee of the Director-General of Education, two are nominees of the Council, two are elected non-academic staff members, three are elected academic staff

members, two are elected student members and two are elected Convocation members. The Chancellor and Vice-Chancellor are members *ex officio*. The Chancellor is Chairperson of the Council and the Registrar is Secretary.

Convocation

Convocation represents the interests of QUT graduates through its representation on Council and its influence on University decision making, particularly in regard to teaching and applied research.

Convocation is chaired by a Warden and is served by a Standing Committee. The full Convocation meets annually and its functions are performed through the year by the Standing Committee.

Information

In addition to the Handbook, the University produces a range of publications to which the public has access. These include the Research and Consultancy Report, the Annual Report, the University's Manual of Policy and Procedures (MOPP) and the Admission Procedures booklet. These publications are available in the University's Libraries or may be obtained on request from the Registrar.

Note: All correspondence should be addressed to:

The Registrar
Queensland University of Technology
GPO Box 2434
Brisbane Qld 4001
Australia

QUT is subject to the Queensland *Freedom of Information Act 1992* which commenced on 19 November 1992.

PRINCIPAL DATES

The schedule of dates which appears below is the University's official calendar. Not all courses comply with the official calendar in every respect. Detailed information on individual course calendars is available from faculty offices and Student Administration.

Academic Calendar

Summer School

09 – 13 January
16 – 20 January
23 – 27 January
30 January – 03 February
06 – 10 February

■ Week 1
■ Week 2
■ Week 3
■ Week 4
■ Week 5

Public Holidays

02 January – New Year's Day
26 January – Australia Day

First Semester

06 – 08 February
09 – 10 February
13 – 17 February

20 – 24 February
27 February – 03 March
06 – 10 March
13 – 17 March
20 – 24 March
27 – 31 March

03 – 07 April
10 – 14 April

17 – 21 April
24 – 28 April
01 – 05 May
08 – 12 May
15 – 19 May
22 – 26 May
29 May – 02 June
05 June – 24 June
26 June – 14 July

■ International Student Orientation
■ Orientation
■ Week 1
13 February First Semester commences
■ Week 2
■ Week 3
■ Week 4
■ Week 5
■ Week 6
■ Week 7
31 March First Semester Census
■ Week 8
■ Week 9

14 April – Good Friday
15 April – Easter Saturday
17 April – Easter Monday
25 April – Anzac Day
01 May – Labour Day

■ Vacation
■ Week 10
■ Week 11
■ Week 12
■ Week 13
■ Week 14
■ Exam preparation
■ Examinations (includes Saturdays)
■ Vacation

12 June – Queen's Birthday

Second Semester

17 – 21 July
24 – 28 July
31 July – 04 August
07 – 11 August
14 – 18 August
21 – 25 August
28 August – 01 September
04 – 08 September
11 – 15 September
18 – 22 September
25 – 29 September
02 – 06 October
09 – 13 October
16 – 20 October
23 – 27 October
30 October – 03 November
06 – 25 November

■ Week 1
17 July Second Semester commences
■ Week 2
■ Week 3
■ Week 4
■ Week 5
■ Week 6
■ Week 7
■ Week 8
■ Week 9
■ Week 10
■ Vacation
■ Week 11
■ Week 12
■ Week 13
■ Week 14
■ Exam preparation
■ Examinations (includes Saturdays)

9 August – Exhibition Day
(unconfirmed)*

25 December – Christmas Day
26 December – Boxing Day

* Royal Brisbane Show normally falls on the second Wednesday of August.

COUNCIL AND COMMITTEES

Council

Composition, membership, powers and responsibilities of QUT Council are governed by the *Queensland University of Technology Act*. Procedures for elections, meetings and dealing with business in Council, are specified in *QUT Statute 2 – Council*.

Council is empowered to establish committees and to delegate power to committees or officers of the University. While Council is ultimately responsible for the management and operation of QUT, it has delegated authority to the chief executive officer, the Vice-Chancellor, and to various senior administrators of QUT for much of the day-to-day management of the University. Council has also established a number of advisory committees, some of which have been authorised to make decisions in respect of prescribed policy and procedural matters.

Council Membership

Chancellor (Chairperson)

V.B. Pullar, AO, BEng(Hons) *Qld*, FIEAust, MACE

Vice-Chancellor

Professor R.D. Gibson, BSc(Hons) *Hull*, MSc PhD *N'cle(UK)*, DSc *CNAA*, FIMA, FAIM

Nominees of the Minister for Education

P.D. Beattie, BA LLB *Qld*, MLA

A. Chaplain, BA *Griff*, MBA *Melb*, DipSIA

Dr C. Emerson, MEc *Syd*, PhD *ANU*

Dr C. Hirst, MBBS BEdSt *Qld*

L.N. Ledlie, BEcon *Qld*

J. Schafer, LLB(Hons) *Qld*

J.J.W. Siganto, BEng *Qld*, FIEAust, MAIRAH, FASHRAE, RPEQ

S.M. Wilson, BCom LLB *Qld*

Nominee of the Director-General of Education

P. Macdonald, BA DipEd BEcon *Qld*

Nominees of Council

A. Gould, AM, DipDrama *Lond.* Academy of Music & Dramatic Art

Dr C.J. Hillyard, BSc(Hons) PhD *Lond.*

Elected non-academic staff members

E.D. Harding, BA *Qld*

J.M. Wright, CertChem *QIT*, BAppSc

Elected academic staff members

T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff.*, DipRHS, MAIP

G.I. MacKenzie, LLB *QIT*, LLM

J.E. Penridge, BEdSt *Qld*, DipNEd

Elected student members

F. Park

C. Schougaard

Elected Convocation members

L. Hayes, DipT DipREd BA GradDipREd GradDipRdg *Brisbane*

P.J. McGahan, BAppSc (Ind.Chem.) GradDipBusAdmin *QIT*

Secretary

B.S. Waters, BCom *Qld*, AAUQ(Prov)

Deputy Vice-Chancellor (attends by invitation)

Professor O.P. Coaldrake, BA(Hons) *James Cook*, PhD *Griff.*, FAIM, FRIPAA

Tenure

Council serves a three-year term.

Aboriginal and Torres Strait Islander Committee

Membership

Chairperson nominated by the Pro-Vice-Chancellor (Academic) after advice from the Committee.

Pro-Vice-Chancellor (Academic) *ex officio*.

Aboriginal and Torres Strait Islander Unit Coordinator as executive officer of the Committee.

Two academic staff within the Aboriginal and Torres Strait Islander Unit elected by the academic staff of the Unit.

Two Aboriginal and Torres Strait Islander academic staff of the University other than from the Aboriginal and Torres Strait Islander Unit nominated by the Committee.

One nominee of University Academic Board who is a member of Council.

Aboriginal and Torres Strait Islander representative on QUT Student Guild Council *ex officio*.

Equity Coordinator or nominee.

One nominee of QATSIECC (Queensland Aboriginal and Torres Strait Islander Education Consultative Committee).

One nominee of the State Director of Department of Employment, Education and Training.

One nominee of the Aboriginal and Torres Strait Islander Commission (South-East Queensland Regional Council).

One nominee of IINA (the Torres Strait Islander Corporation).

One nominee of FAIRA (Foundation for Aboriginal and Islander Research Action).

One nominee of the Queensland Department of Employment, Vocational Education, Training and Industrial Relations.

A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Council member holds office for the term of the Council which nominates them (three years).

Nominated members serve a two-year term.

Ex officio members remain members for as long as they hold the position relevant to their membership.

Student Guild members serve a one-year term.
Aboriginal and Torres Strait Islander Committee meets at least four times a year.

Academic Appeals Committee

Membership

Pro-Vice-Chancellor (Academic) or nominee as chairperson.
Director of Counselling and Health *ex officio*.
Two Council members nominated by Council.
Two members of academic staff from different faculties appointed by the University Academic Board.
One member of the Student Guild appointed or elected in the manner determined by the Student Guild Council.
Equity Coordinator *ex officio*.
A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.
Council members nominated by Council hold office for the term of the Council which nominates them (three years).
Staff members appointed by the University Academic Board serve a two-year term.
The Student Guild member serves a one-year term.
The Committee meets as required.

Academic Board

Membership

Pro-Vice-Chancellor (Academic) *ex officio* as chairperson.
Vice-Chancellor *ex officio*.
Deputy Vice-Chancellor *ex officio*.
Pro-Vice-Chancellor (Research and Advancement) *ex officio*.
Associate Pro-Vice-Chancellor (Academic) *ex officio*.
Registrar *ex officio*.
Director of Information Services *ex officio*.
Deans of faculty *ex officio*.
Chancellor or Council member nominated by Chancellor.
One Council member appointed by Council.
One academic staff member from each faculty (four of whom would normally be at the level of professor/associate professor), appointed or elected in the manner prescribed by the relevant faculty academic board.
Two members of the academic staff of the University, appointed or elected in the manner determined by the Academic Staff Association.
Two postgraduate students of the University, nominated by the Postgraduate Students Association of the University.
Six undergraduate students, appointed or elected in the manner determined by the Student Guild Council.
A nominee of the Registrar as secretary.
One member shall be nominated as deputy chair of the University Academic Board by the chairperson of the Board.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.

Council members nominated by Council or the Chancellor hold office for the term of the Council that nominates them (three years).

Elected and other nominated staff members serve a two-year term.

Student Guild members and postgraduate students serve a one-year term.

The Board normally meets every six weeks.

Academic Procedures and Rules Committee

Membership

Chairperson of the University Academic Board or nominee as chairperson.

Registrar *ex officio*.

Director of Student Administration *ex officio*.

One academic staff member from each of four faculties, nominated by and from the University Academic Board.

One academic staff member from each of the four faculties not represented above, nominated by and from the relevant faculty academic boards.

One member of the Student Guild appointed or elected in the manner determined by the Student Guild Council.

A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.

Nominated academic staff members serve a two-year term.

The Student Guild member serves a one-year term.

The Committee meets as required.

Admission Appeals Committee

Membership

Pro-Vice-Chancellor (Academic) or nominee as chairperson.

Counselling and Health Services Director *ex officio*.

Registrar (or nominee).

One senior academic staff member nominated by the Vice-Chancellor.

One member of the Student Guild nominated by the Guild.

Admissions Manager as secretary.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.

The nominated academic staff member serves a two-year term.

The Student Guild member serves a one-year term.

The Committee meets as required.

Convocation Standing Committee

Membership

Warden of Convocation *ex officio* as chairperson.

Two members of QUT Council elected to Council by and from Convocation *ex officio*.
Five members elected by and from Convocation.
A member of QUT Foundation Alumni who is also a member of Convocation,
nominated by the QUT Foundation Alumni Council.
A nominee of QUT Development Office (non-voting).
A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.
The five elected positions are held for one term, elections being held at the annual general meeting of Convocation. Members may be re-elected.
The nominated member serves a two-year term.
The Committee normally meets every six weeks.

Equity Board

Membership

Pro-Vice-Chancellor (Academic) *ex officio* as chairperson.
Chairperson of Aboriginal and Torres Strait Islander Committee *ex officio*.
Equity Coordinator *ex officio* as executive officer.
Equity Officer *ex officio*.
One nominee of each committee of Equity Board: Access for People with Disabilities, Affirmative Action for Women, Q-Step Project Steering Committee, Steering Committee on Child Care.
One member of Council nominated by Council.
Two enrolled students appointed or elected in the manner determined by the Student Guild Council.
One academic staff member elected by and from the academic staff of the University.
One non-academic staff member elected by and from the non-academic staff of the University.
One dean of faculty appointed by the Vice-Chancellor's Advisory Committee.
One academic staff member nominated by and from the University Academic Board.
One nominee of the Registrar from Student Administration Department.
One nominee of the Registrar from Counselling and Health Department.
One nominee of the Registrar from Human Resources Department.
A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Council member holds office for the term of the Council that nominates them (three years).
Nominated and elected members serve a two-year term.
Ex officio members remain members for as long as they hold the position relevant to their membership.
Student Guild members serve a one-year term.
The Board meets at least four times a year.

Planning and Resources Committee

Membership

Chancellor or Council member nominated by Chancellor as chairperson.
Vice-Chancellor *ex officio*.

Deputy Vice-Chancellor *ex officio*.
Pro-Vice-Chancellor (Academic) *ex officio*.
Pro-Vice-Chancellor (Research and Advancement) *ex officio*.
Registrar *ex officio*.
Planning and Budget Director *ex officio*.
Finance and Facilities Director *ex officio*.
Head of Division of Information Services *ex officio*.
Five Council members appointed by Council.
One dean of faculty appointed by the Vice-Chancellor's Advisory Committee.
One member of University Academic Board appointed by University Academic Board.
One enrolled student appointed or elected in the manner determined by the Student Guild Council.
A nominee of the Registrar as secretary.

Tenure and frequency of meeting

The Chancellor or nominee remains in the Chair for the term of office of the Chancellor (up to five years).
Ex officio members remain members for as long as they hold the position relevant to their membership.
Council members appointed by Council hold office for the term of the Council which appoints them.
Members appointed by the Vice-Chancellor's Advisory Committee and the University Academic Board serve a two-year term.
The Student Guild member serves a one-year term.
The Committee normally meets every six weeks and is required to address audit committee matters at least two times every year.

Research Management Committee

Membership

Pro-Vice-Chancellor (Research and Advancement) *ex officio* as chairperson.
Research Manager *ex officio*.
One academic staff member with a record of excellence in research from each faculty, appointed or elected in the manner determined by the relevant faculty academic board.
Two senior staff members with a record of excellence in research nominated by the chairperson.
Director of Information Services or nominee (rights of audience and debate).
One research student with a sound record of research experience and achievement, nominated by the Pro-Vice-Chancellor (Research and Advancement) (rights of audience and debate).
A nominee of the Registrar as secretary.
One member shall be nominated as deputy chair of the committee by the chairperson of the committee.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.
Nominated members serve a two-year term.
The Committee normally meets every six weeks.

Teaching and Learning Committee

Membership

Pro-Vice-Chancellor (Academic) or nominee as chairperson.

Associate Pro-Vice-Chancellor (Academic) *ex officio*.

Director of Information Services *ex officio*.

Director of Academic Staff Development Unit *ex officio*.

Equity Coordinator *ex officio*.

Two members of the University Academic Board, nominated by and from the Board.

One academic staff member with a record of excellence in teaching from each faculty, appointed or elected in the manner determined by the relevant faculty academic board.

One undergraduate student appointed or elected in the manner determined by the Student Guild Council.

One postgraduate student of the University elected by the postgraduate students of the University.

Tenure and frequency of meeting

Ex officio members remain members for as long as they hold the position relevant to their membership.

Nominated academic staff members serve a two-year term.

Student members serve a one-year term.

The Committee meets as required.

Vice-Chancellor's Staff/Student Liaison Committee

Membership

Vice-Chancellor *ex officio* as chairperson.

President, Academic Staff Association *ex officio*.

Chairperson of the combined unions industrial group *ex officio*.

President, Student Guild *ex officio*.

One member of the Academic Staff Association nominated by the Association.

One member of the combined unions industrial group nominated by the group.

One academic staff member elected by and from the University's academic staff.

One non-academic staff member elected by and from the University's non-academic staff.

Two enrolled students appointed or elected in the manner determined by the Student Guild Council.

A nominee of the Registrar as secretary.

Tenure and frequency of meeting

Ex officio members remain members as long as they hold the position relevant to their membership.

Members appointed by the Academic Staff Association and the combined unions industrial group serve a two-year term.

Elected staff members serve a two-year term.

Student Guild members serve a one-year term.

The Committee meets at least four times a year.

STAFF

Senior Officers of the Administration

Chancellery

Vice-Chancellor: Professor R.D. Gibson, MSc Hull, PhD N'cle(UK), DSc CNAA, FAIM

Deputy Vice-Chancellor: Professor O.P. Coaldrake, BA(Hons) James Cook, PhD Griff., FAIM, FRIPAA

Pro-Vice-Chancellor (Research and Advancement): (Acting): Professor H.J.B. Corderoy, BSc(Tech)(Merit) MEngSc PhD UNSW, Barrister of the Supreme Court NSW, CPEng, FIEAust

Pro-Vice-Chancellor (Academic): Professor J.C. Reid, BSc Adel., MA Hawaii, MA PhD Stan., FASSA, FAIM

Associate Pro-Vice-Chancellor (Academic): Professor R.B. Gardiner, BSc(Hons) MA PhD Edin., CPhys, FIP, FAIP

Director, Academic Staff Development: Professor P.C. Candy, BA BCom Melb., DipEd Adel., DipContEd NE, MEd Manc., EdD Br.Col.

Director Planning and Budget: D. Brown, BBus QIT

Equity Coordinator: N.R. Shatifan, BA CNAA, BSocWk Curtin

Coordinator, Aboriginal and Torres Strait Islander Unit: P. Duncan, BLitt ANU, MEd Canb.

Public Affairs Manager: P.H. Hinton, BA Qld

Executive Officer: M.R. MacColl, BBus QIT

Administrative Services Division

Registrar – Head, Administrative Services: B.S. Waters, BCom Qld, AAUQ (Prov)

Deputy Registrar and Head, Student Administration: D.G. Greenwood, BEcon(Hons) Qld

Finance and Facilities Director: J.A. Nelson, BCom Qld, AAUQ, FCPA

Human Resources Director: M.J. Toohey, BBus QIT

Counselling and Health Services Director: D.B. Whitelaw, BA W.Ont., MA Macq., EdD Vanderbilt, MAPsS

Campus Registrar (Gardens Point): G.P. Abernethy, BA MPubAdmin Qld, GradDipBusAdmin QIT

Campus Registrar (Kelvin Grove): D.W. Spann, BA Qld

Campus Registrar (Kedron Park): N.J. Jackson, BA Darling Downs, MBus(Comn)

Campus Registrar (Carseldine): E.D. Harding, BA Qld

Campus Registrar (Sunshine Coast): G. Hoy, BBus

Publications Manager: I.A. Wynne

Secretariat Manager: S.A. Johnstone, BA ANU, DipContEd NE

Information Services Division

Director of Information Services: T. Cochrane, BA Qld, MPhil Griff., AALIA

University Librarian: G.M. Austen, BA(Hons) Melb., DipLib Canb., AALIA, AIMM

Computing Services Director: J.D. Noad, MSc Qld, MACS

Audiovisual Services Director: G.A. Roberts, BA DipEd UNSW, MScEd EducSpecialist Indiana, MAITD

Educational Television (ETV) Manager: R.J. Care-Wickham

Opening Learning Manager: Associate Professor B.R. Scriven, BSc MEd Syd., DipEd NE, MEdAdmin Qld, ASIA, MACE

Computer Based Education Director: H.D. Ellis, BSc(Hons) PhD Durh., MAIP, MIMA

Research and Advancement Division

Pro-Vice-Chancellor – Head, Research and Advancement Division:

Professor M.E. Poole, BA BEd Qld, MA(Hons) NE, PhD LaT., FACE, FASSA, MAPsS

Educational Services Manager: D. Stent, QDA BA MAgrSt Qld

Commercial Services Manager: C. Melvin, BBus QIT, MBA Qld

Research Manager: A. Crowe, BE(Elect) Qld., BLegSt Macq.

Development Manager: R. Miller, BA(Hons) MA Qld, CFRE, AFAIM

Academic Staff

Faculty of Arts

Dean (Acting): Professor P.D. Lavery, BA DipEd Qld., DipD Brist., MLitt NE

Faculty Administration Officer: J.A. Stephenson, BA MBA Qld, AIMM, ASA

Academy of the Arts

Head of School (Acting): Associate Professor S.P. Street, MA City, DipDance BalletVic

Dance

Head of Dance (Acting): S.C. Boughen, BA(Hons) Dance Lond., MA(Contemporary Dance) Kent

Lecturers:

K.E. Bell, BA Qld, CertT Mt Gravatt, MA(Dance) Sur.

G.J. Collins, RAD

J. Donald, ADCommRec Nth Bris., BA(Dance)

A.A. Geeves, BA DipTech Stockholm, MA NY, DTR

J. Tally, BFA(Modern Dance) Utah

Drama

Head of Drama: B.C. Haseman, DipT Mt Gravatt, BA Qld, MA Sus., AdvDipS&D Lond., ASDA, LSDA, ATCL, LTCL, FTCL

Senior Lecturer: J. Martin, DipT Kelvin Grove, BA PhD Stockholm, LTCL

Lecturers:

D.G. Batchelor, BA(Hons) Qld

D.M. Eden, BA Qld, ASDA, ATCL

J.A. Hamilton, DipT BEd Kelvin Grove, MA Qld

C. Hoeppe, BA DipEd Qld

D.K. McCrudden, DipStageProd NIDA

J. McLean, DipT Kelvin Grove, BA Qld, LSDA

M.L. Radvan, BA(Hons) DipEd Syd., DipDirecting NIDA

I. Thomson, DipActing RADA, Lond., BA Qld, LTCL

Associate Lecturers:

S. Mee, DipEd Mt Gravatt

T.M. Phillips, DipT Kelvin Grove, ADArts Brisbane

G. Seffrin, ADAT Kelvin Grove, BA(Hons) Qld

Music

Head of Music: A.A. Thomas, BEd MMus Melb., MACE

Senior Lecturer: M.C. Olding, AM, DipMus Melb., MMus Qld, FQCM

Lecturers:

H.B. Axford, BMus Melb.

S.H. Forster, MMus *Miss.*, MMus *Indiana*

B.J. Hoesman, CertEd *Kelvin Grove*

R.H. Hultgren, BA *Qld*

C. McCreath, BA AEd *Qld*, DalcrozeSCert *Syd.*, CertT *Kelvin Grove*, AMusA, ATCL, AAIM

A.L. Morris, BMus GradDipMus *QCM*, GradDipTeach *Brisbane*, MEdSt *NE*

M.R. Whelan, ADPA *Brisbane*, MCreativeArts *James Cook*, BA(Drama)

G.Y.K. Yuen, DSCM *Syd.*, Cert Vienna Academy *Vienna*, MchM MRE *Louisville*, PhD *Griff.*

Associate Lecturers:

A.R. Brown, BEd(Music) *Melb.CAE*, GradDipComp *Deakin*, MEd(Music) *Melb.*

B. Millard, BMus *QCM*, LMA, LTCL

Visual Arts

Head of Visual Arts: Associate Professor D.M. Hawke, DipArt(Ed) *Syd.*, BEd MA *Calg.*, PhD *Alberta*

Principal Lecturer: J.A. Airo-Farulla, BA *Kala.*, MA PhD *Wash.*

Senior Lecturer:

J.M.J. Armstrong

Lecturers:

A.E. Cassidy, CertAppA DFA *QCA*

G.C. Coomber, CertT *Kelvin Grove*

A.J. Dwyer, CertT *Kelvin Grove*, BEd *Qld*

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A. McNamara, MA(Hons) *Syd.*

W.J. Palmer, CertAppA DFA *QCA*, DipT *Kelvin Grove*

M.E. Turner, DipArts *Alexander Mackie*, BA(VisArts) *Syd.*, GDipProfArt *Syd.CAE*, MA *R'dg*

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M. Webb, DipFineArts *QCA*

Centre for Innovation in the Arts

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School of Humanities

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T.L. Jordan, BA BD PhD *Qld*
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J. Van Wessem, CertT DipTeach *NZ*, BA MA *Waik.*
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Franche-Comté
D.I. Scott, BA(Hons) PhD *N'cle (NSW)*
C. Whittington, BEd *Airlangga*, DipTeachESL *Yogyakarta*

School of Social Science

Head of School: Vacant

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College of Divinity, MCD, MAPsS

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R.E. Hicks, BA *NE*, MA DLitt&Phil *S.Africa*, PGCE(Ed) *Lond.*, ThC(IVF *Aust*),
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Lecturers:

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Faculty of Built Environment and Engineering

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Executive Assistant to the Dean: R.W. Nicol, BE(Hons) MEngSc *Qld*, MIEAust

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D. Messer, BSc(Geology) *Qld*

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School of Civil Engineering

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School of Construction Management

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School of Electrical and Electronic Systems Engineering

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Professor: Professor B. Boashash, BE *Lyon*, MSc PhD *Inst. Nat. Poly., Grenoble*, SMIEEE, FIREE

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Centre for Research Signal Processing

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School of Mechanical and Manufacturing Engineering

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Professor of Tribology: W. Scott, MSc PhD *Leeds*, CEng, FIEAust, MIMechE, MSTLE

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Technologist: P.W. Baker, BE(Met) MEngSc *Qld*, MIEAust

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School of Planning, Landscape Architecture and Surveying

Head of School: C. Tong Wu, BArch PhD *Calif.-Berkley*, MSc *Col.*, MRAPI

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Australian Housing and Urban Research Institute

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Australian Key Centre in Land Information Studies

Executive Director: S. Johnston, BBus(Man) *QIT*, MSc *Bath*

Faculty of Business

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Faculty International Students Program

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Student Affairs Division

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School of Accountancy

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School of Accounting Legal Studies

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D. Day, LLB, Solicitor
P. Harris, LLB(Hons) *Qld*, LLM *Camb.*
M. Knight, BEcon *Tas.*
S. Rodman, BCom LLB *Qld*

School of Communication and Organisational Studies

Head of School: Professor R.W. Norton, BA *MontanaS.*, MA *New Mexico*, PhD *Wis.*,
ICA, SCA, APA, ACA

Associate Professors:

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P.M. Neilsen, MA PhD *Qld*, ASA
H.A. Stevenson, MA *Hawaii*, FPRIA, APR

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R.A. Gibson, BEcon BCom MSocSc *Qld*
G.N. Hearn, BSc(Hons) PhD *Qld*
P.M. McCarthy, BA *Qld*, MA, LSDA(Board) FTCL *Lond.*
R. Petelin, CertEd *Kelvin Grove*, BA *Qld*, ASDA
L.E. Simpson, DipT *Mt Gravatt*, BEd *Brisbane*, MEd *James Cook*

Lecturers:

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J.H. Downing, DipT GradDipCounselling *Kelvin Grove*, MEd *S.Aust.*
E.K. Hallt, BBus(Mgt) *QIT*, MBA *Qld*, AAMM, CMAHRI
S.L. Harding, BSc(Hons) *ANU*, MPubAdmin *Qld*, RAIPA, AITD
C. Hatcher, BA *Qld*, BEd *Brisbane*, MA(Hons) *Charles Sturt*, ASDA (Board), LTCL
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H.A. Jones, BA MLitt *NE*
B. McKenna, BA *Qld*, DipT *Kelvin Grove*, BEd *Brisbane*
P.M. McLean, BA DipEd MLitSt *Qld*
N.T. Meyers, BA *Qld*, MLS *UC Berkeley*
L. Parsons, BA MEdSt *Qld*
R. Thompson, BA(Hons) MAppPsych *Qld*

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School of Economics and Public Policy

Head of School: Professor A. Layton, MEcon PhD *Qld*

Associate Professors:

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 M.J. Quayle, BEcon MPolEcon PhD Qld
 N. Ryan, MSc MPhil PhD Griff.
 A.W. Williams, BCom DipEd UNSW, MEcon Syd., PhD Qld, FCIT
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School of Finance

Head of School: Professor S. Thompson, BCom(Hons) MFM PhD Qld, FCPA, FCIS, FCIM, FCA

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School of Management, Human Resources and Industrial Relations

Head of School: Associate Professor D.J. Blackmur, BEcon(Hons) MLitSt PhD *Qld*, MACE

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School of Marketing, Advertising and Public Relations

Head of School: Professor N.D. Arnold, BMus MSc *Southern Ill.*, ReD *Indiana*

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V. Schinkel, BBus(Mktg) MBus(MktgSc)

School of Media and Journalism

Head of School (Acting): R.R.L. Williams, BEd *Qld*, MA *Loyola*, SMPTE, PDGA

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Australian Centre in Strategic Management

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Communication Centre

Director: Associate Professor A.H. Stevenson, MA *Hawaii*, FPRIA, APR

Rural Management Development Centre

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Faculty of Education

Faculty Office

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Assistant Dean: R.J. Hardingham, BSc DipEd BEd MEdAdmin PhD *Qld*, MACE

Faculty Administration Officer: J. Zahmel, BBus, ASA

Cultural and Policy Studies

Head of School: Professor N.J. Kyle, BA(Hons) PhD *N'cle(NSW)*

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C.M. Burke, TCert *BalmainTC*, MA *Mich.S.*, MA PhD *Mich.*, FCP, MACE, MAPsS

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P.J. Meadmore, BA BEd MEdSt *Qld*

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C.T. Symes, BEd(Hons) *S'ton*, PhD *W'gong*

G.W. Tait, BSc(Hons) *Liv.Poly*, BA MHMS *Qld*, MA *York*

Associate Lecturer:

P.C. O'Brien, BA *Griff.*, GradDipTeach(Sec) *Brisbane*, MEdSt *Qld*

Curriculum and Professional Studies

Head of School: Professor B.C. Hansford, BCom BEd *Melb.*, MEd *Calg.*, PhD *NE*

Associate Professor: R.G. Elliott, BSc BEd(Hons) PhD *Qld*

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 R.G. Cope, CertT Syd.TC, BEd(Hons) *James Cook*, MEdSt *Qld*
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Early Childhood

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 N.L. McCrea, BA MA *St Jose S.*, STC(EC) *UCSC*, PhD *Qld*
 B.A. Piscitelli, BA *Keuka*, MEd *Antioch*, PhD *James Cook*
 N.J. Yelland, CertEd BEd(Hons) *Exe.*, GradDipIUC *S.Aust.* CAE, MEd *Flin.*, PhD *Qld*, MACE

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 K.A. Irving, BA(Hons) PhD *Qld*
 J.M. McDonell, DipKTC *BKTC*, MScEd *Banks St Coll.(NY)*
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Associate Lecturers:
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Language and Literacy Education

Head of School: Associate Professor W.T. Corcoran, BA DipEd *Qld*, MLitt *NE*, MA PhD *Alta*

Associate Professor: C.J. Lankshear, MA(Hons) PhD *Cant.(NZ)*

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G.L. Chapman, BA Syd., BLS Br.Col., ALIA, MACE
L.L. Gerot, BA Iowa, MA(Hons) PhD Macq.
J.L. Talty, BA Syd., MA Macq.

Lecturers:

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P.D. Van Homrigh, CertRT GradDipReading Mt Gravatt, BEd Qld

Learning and Development

Head of School: Associate Professor G.M. Boulton-Lewis, CertT NSW Educ.Dept.,
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Associate Lecturers:

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H. Pillay, BEd MA S.Pac., MSc PhD UNSW
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Mathematics, Science and Technology Education

Head of School: Associate Professor T.J. Cooper, BSc(Hons) DipEd PhD Adel., AARE

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Senior Lecturers:

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T. Mowchanuk, BSc *Adrian*, BEd *LaT.*, GradDipInfoProc *Qld*
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Social, Business and Environmental Education

Head of School: Associate Professor R.V. Gerber, BA MEd MEdSt PhD *Qld*, FAIC

Senior Lecturers:

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L.A. Kirkwood, BCom BEd MEdSt *Qld*, AAUQ (Prov)
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G.J. Shipstone, BEcon MA *Qld*, DipEdSt *Armidale*
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Faculty of Health

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School of Human Movement Studies

Head of School: Professor A.W. Parker, MSc PhD *Oregon*, FASMF

Associate Professor: A.P. Hills, BEd *Tas.*, MSc *Oregon*, PhD *Qld*

Senior Lecturer: K. Gilbert, CertEd *Exe.*, BEd *S.Aust.CAE*, BPE MEd *Melb.*, PhD *Qld*

Lecturers:

R. Berry, DipTeach, *Kelvin Grove*, DPE BEd *Qld*, MEd *Syd.*
B. Boyd, CertT *Kedron Park*, DPE BHMS *Qld*, MEnvComH *Griff.*
G. Costin, DPE *Qld*, BA MEd *James Cook*, MACE

T. Cuddihy, DipT *Kelvin Grove*, BEd MHMS *Qld*
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 P. Feeney, DPE *Qld*, GradDipOE *Edin.*
 S. Green, BAppSc *S.Aust.CAE*, MA *Vic.*
 G. Kerr, BSc MPhEd *Otago*, PhD *W.Aust.*
 M. McDonald, DipT DPE *Otago*, MHK *Wind.*
 C. O'Brien, DPE *Syd T.C.*, MHMS PhD *Qld*
 C. Purdy, DPE BEd BHMS *Qld*

School of Nursing

Head of School: Professor M.E. Clinton, BA *Open*, BA(Hons) PhD *E.Anglia*,
 FETeachCert *RCNT*, PGCertEd *Lond.*, RNT, FRCNA, FCMHN
Associate Professor: G. Hart, DipNurs *BCIT*, DCHN *Cumberland*, BA MHP PhD
UNSW

Senior Lecturers:

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 H. Edwards, DipAppSc *QIT*, BA *Qld*, FRCNA
 D. Gaskill, BAppSc GradDipHSc *WAIT*, MAppSc *Curtin*
 R. E. Nash, DipAppSc *QIT*, BA *Qld*, MHlthSc *Charles Sturt*, FRCNA
 J. E. Penridge, BEdSt *Qld*, DipNursEd, FRCNA, HMIAO
 F. Sanders, DipAppSc ComNurs *Lincoln*, BA MSocPlanDev *Qld*, FRCNA
 R.N. Thornton, DipNursEd *Cumberland*, GradDipAdmin *Kuring-gai*, BEd *S.Aust.CAE*,
 GradDipCLNutrition *IAN*, MHPed *UNSW*, FRCNA
 B. Tooth, BA(Hons) PhD *W'gong*
 D. Weir, BA BSc(Hons) *Flin.*, MSc *Qld*

Lecturers:

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 A. Barnard, MA *Macq.*
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 R. Bull, BAppSc *Canb.*, MNurs
 D. Collins, BA *Qld*, BAppSc *QIT*, FRCNA
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 J. Foster, DipAppSc(NEd) BNurs
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 L. Humphreyes-Reid, DipAppSc *QIT*, BNurs, GradDipHlthSc
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 FRCNA
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Associate Lecturers:

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L. Mungomery, BNurs
C. Nagle, BAppSc
H. Nutter, DipAppScClinNsg BAppSc
C. Palmer, DipAppSc *QIT*, BAppSc
C. Purcell, BAppSc(Nurs) PhD
V. Richardson, DipAppSc *QIT*, BAppSc *Canb.*
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School of Optometry

Head of School: Professor L.G. Carney, BAppSc MSc(Optom) PhD *Melb.*, LOsc, FAAO

Associate Professors:

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P. G. Swann, BSc(Hons) *Aston*, MAppSc, FBCO, FAAO

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C. F. Wildsoet, DipAppSc *QIT*, BSc(Hons) PhD *Qld*
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Lecturer:

J. D. Bevan, DipAppSc *QIT*, GradDipHlthEd *Brisbane*, MSc *Griff.*

Clinic Administrator: V. Shuley, BOptom *UNSW*

School of Public Health

Head of School: B.F. Oldenburg, BSc(Hons) MPsy PhD *UNSW*

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D. Stewart BA(Hons) *Durh.*, MA(Ed) *Leic.*, PGCertEd *Oxf.*, PhD *Otago*

Senior Lecturers:

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P. Hindson, BEC *Syd.*, MPH *Calif-Berkley*
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Lecturers:

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J. DiDonato, BBus(HlthAdmin) *QIT*, MBA
C.A. Forrester, BHMS *Qld*, GradDipTeach *Brisbane*, GradDipErg *LaT.*, MEnvHlth *Griff.*
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 MEd *Charles Sturt*
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 A. P. Vivanti, BSc *Qld*, GradDipNutDiet *QIT*

Faculty of Information Technology

Dean: Professor D. Longley, BSc(Physics) *Manc.*, MSc(Tech) *UMIST*, PhD *Leic.*,
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Director of Research: Professor K.J. Gough, MSc PhD *Well.*, FNZEI, MIEEE, MACM,
 MACS
Assistant Dean: M.G. Roggenkamp, BEd *James Cook*, DipCompSc MScSt *Qld*, MACS,
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School of Computing Science

Head of School: Associate Professor G. M. Mohay, BSc(Hons) *WAust.*, PhD *Monash*,
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School of Data Communications

Head of School: Professor W. Caelli, BSc(Hons) *N'cle(NSW)*, PhD *ANU*, FACS, FTICA, MACM, MIEEE

Associate Professor: Vacant

Senior Lecturer: B.M. Broom, BSc PhD *Qld*

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D. Rolf, BSc *N'cle(UK)*, PhD *Leic.*

S.V. Russell, BE DipCompSc MEngSc *Qld*

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School of Information Systems

Head of School: Professor M.P. Papazoglou, BSc(Hons) PhD *Dund.*, MSc *Edin.*, MIEE

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D. Edmond, BSc(Hons) *Edin.*

J.S. Goodell, BA *Lafayette Coll.*, MS AdvMLS PhD *Florida S.*, AIMM, ARMA

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Associate Lecturers:

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C.P. Edwards, BBus *Brisbane*

R. McArthur, BSc(Hons) *ANU*

S.W. Milliner, BSc DipEd *Qld*, GDCompSc MAppSc(Comp)
J. Pougilis, BSc *Qld*, BAppSc RMIT

Information Security Research Centre

Director: Vacant

Acting Director and Associate Professor in Cryptology: E. Dawson, BSc DipEd Wash.,
MA Syd., MLittSt MSc *Qld*, PhD, FTICA, MCMSA

Faculty of Law

Dean: Professor D.G. Gardiner, BA LLM(Hons) *Syd.*, Barrister

Associate Dean: Professor M. Cope, BA LLM *Qld*, Barrister

Assistant Dean: A.J. Chay, LLM *Qld*, Solicitor

Faculty Administration Officer: W.A. Smith, BA(Hons) *Syd.*, GradDipCourt&
ParliamentaryReporting *Canb.*

Law Library

Law Librarian: C.A. Crawford, BA LLB *Qld*, AALIA

Deputy Law Librarian: Vacant

Research Studies

Director (Acting): Professor S.G. Corones, BCom LLB PhD *Qld*, LLM *Lond.*, Solicitor
(*Qld*, England and Wales)

Postgraduate Studies

Director (Acting): Professor W.D. Duncan, LLB *Qld*, LLM *Lond.*, Solicitor

Research Programs

Director: Associate Professor B.T. Horrigan, BA LLB *Qld*, DPhil *Oxf.*, Solicitor

Centre for Commercial and Property Law

Feez Ruthning Professor of Property Law: Professor W.D. Duncan, LLB *Qld*,
LLM *Lond.*, Solicitor

Clayton Utz Professor of Commercial Law: Professor C.D. Gilbert, BA LLM *Qld*,
DJur *York*, Barrister and Solicitor (ACT), Solicitor (*Qld*)

Law School

Professor: D.E. Fisher, MA LLB PhD *Edin.*, Solicitor (Scotland)

Principal Lecturer: C.A.C. MacDonald, BA LLB *Qld*, LLM *Lond.*, Solicitor

Associate Professors:

G.R. Clarke, BA LLM *Qld*, LLB(Hons) *QIT*, Barrister

P.V. Tahmindjis, BA LLB *Syd.*, LLM *Lond.*, Barrister (NSW)

Senior Lecturers:

I. Davies, LLB GradDipLegalPrac *QIT*, LLM *Qld*, Solicitor

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W. Lane, LLB *Syd.*, LLM *Melb.*, Solicitor (NSW)

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R.J. Sibley, CertEng LLM *Qld*, Barrister (*Qld*, HCA)

A.E. Wallace, LLB(Hons) *Qld*, LLM *Monash*, Solicitor

I.A. Wilson, LLM *Melb.*, Barrister and Solicitor (Vic.), Barrister (*Qld*)

Lecturers:

E. Barnett, BA LLB(Hons) *Qld*, GradDipLegalPrac *QIT*, GradDipLibSc, LLM

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 S.A. Christensen, LLB(Hons) *QIT*, LLM, Solicitor
 T.L.C. Cockburn, BCom LLB(Hons) *Qld*, LLM, Solicitor (Qld and High Court of Australia)
 S.E. Colbran, BCom(Hons) LLB(Hons) *Qld*, LLM(Hons), Solicitor (Qld, High and Federal Courts of Australia)
 L.R. de Plevitz, BA *UNSW*, LLB(Hons), Solicitor
 N. Dixon, BA LLB(Hons) *ANU*, Solicitor
 A.E. Edwards BSocWk *Qld*, LLB(Hons) GradDipLegalPrac
 H.M. Endre-Stacey, LLB GradDipLegalPrac *Adel.*, Barrister and Solicitor (SA), Solicitor (NSW), Barrister (Qld, Inner Temple England and Wales)
 S.C. Fisher, CertPracLegalTraining *Kurang-gai CAE*, LLB(Hons) *NSWIT*, LLM, Barrister and Solicitor (ACT), Solicitor (NSW, Qld and High Court of Australia)
 W.E. Harris, LLB(Hons) *QIT*, LLM, Solicitor
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Associate Lecturers:
 P.L. Tan, LLB(Hons) *Malaya*, LLB(Hons), Advocate and Solicitor (Malaya), Barrister (NSW), Barrister and Solicitor (ACT), Solicitor (Qld)
 S.J. Traves, LLB(Hons), Solicitor

Legal Practice

Director: Associate Professor J.K. de Groot, BA LLB PhD *Qld*, Solicitor

Senior Lecturers:

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J. Pastellas, BA LLM *Qld*, GradDipLegalPrac *QIT*, Solicitor

Lecturers:

K.F. Maxwell, LLB GradDipLegalPrac *QIT*, LLM, Solicitor

Justice Studies

Director: Associate Professor S.D. Petrie, CertEd BEd(Hons) *Leeds*, PhD *Qld*

Deputy Director: G.J. Dean, MSocWk *Qld*

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K.M. Hazelhurst, BA *McG.*, MA PhD *Tor.*

K.L. Thomas, MSoc *Copen.*, BSocWk PhD *Qld*

Lecturers:

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S. McCulloch, DipT *Capricornia*, BA(Hons) MAppPsych *Qld*
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B.O. Wigan, BA *James Cook*, Dip OHSM, DipMan *USA*, MEd

Associate Lecturers:

S.A. Beattie, LLM, Barrister
B.J. Carpenter, BHMS(Hons) *Qld*

Faculty of Science

Dean: Professor A.J. Webber, MS *G'town, Wash., DC*, PhD *Qld*, DMT, FAIMLS

Assistant Dean: D.W. Field, DipT *Adel.CAE*, BSc(Hons) PhD *Adel.*, FAIP

Faculty Administration Officer: S. Gibb, BSc(Hons) Dip *Glas.*, Dip *Stir.*

School of Chemistry

Head of School: Professor G. George, BSc(Hons) PhD *Qld*, CChem, FRACI

Associate Professor: P.M. Fredericks, BSc(Hons) DPhil *Sus.*, FRACI

Senior Lecturers:

J.P. Bartley, MSc(Hons) PhD *Auck.*, CChem(UK), MRSC, AAIFST
M.R. Chambers, PhD *Stir.*, PhD *Lond.*, CChem(UK), MRSC
R.L.W. Frost, BEd MSc PhD *Qld*, CChem
S. Kokot, BSc(Hons) PhD *UNSW*, CChem, FRACI
E.J. O'Reilly, MSc *Qld*, DipEd, CChem, FRACI
D.P. Schweinsberg, ASTC BSc *UNSW*, MSc PhD *Qld*, CChem, MRACI, AMAusIMM
G. Smith, BSc PhD *Qld*, DipIndChem, CChem, MRACI

Lecturers:

D.P. Arnold, BSc PhD *Qld*, DipIndChem, CChem, MRACI
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Associate Lecturer:

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Laboratory Manager: N.A. Seils, DipIndChem *CTC*

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E.P. Martinez, CIC, ADClinLabTech *QIT*
A.M. Schwede, CIC, ADAppChem *QIT*
P.R. Stevens, CIC, ADAppChem

School of Geology

Head of School: D. Gust, BA Lawrence, MA Rice, PhD ANU

Principal Lecturer: L.H. Hamilton, BE MSc UNSW, PhD DIC Lond., FAIG, FAusIMM

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M.E. Cox, BA Macq., MS Hawaii, PhD Auck.

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D.C. O'Connell, BSc DipEd Qld, MSc James Cook, BEd Brisbane, FGS(Lond.), MAusIMM

W.F. Ridley, MSc Qld

G.G. Shorten, MSc Qld, TCert Kuring-gai, MAusIMM

J.P. Williams, BSc Syd., MAppSc QIT, FRAS

Technologist: W. Kwiecien, CIC, ADAppChem, BAppSc

Senior Laboratory Technician: F. Robins, BSc(Hons) Dunelm, MAus IMM

School of Life Science

Head of School: Professor V.R. Sara, BA(Hons) PhD Syd., Doc Stockholm

Professor: J.L. Dale, BScAgr PhD Syd.

Senior Lecturers:

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N.A. Marsh, BSc(Hons) Queens Elizabeth College, PhD Lond.

P.B. Mather, BSc(Hons) PhD LaT.

P.P. Stallybrass, BAppSc MLS QIT, MS NYS (Buffalo), DMT, FAIMLS

P. Timms, MSc PhD Qld, FASM

J.C. Wilson, BAppSc QIT, MAppSc, CBiol, MIBiol

P.A. Wood, BSc(Hons) PhD Qld, FASM

G.H. Yezdani, BSc(Hons) MSc Sind, PhD Monash, CBiol, MAIBS, MAIBiol

Lecturers:

A.J. Anderson, BSc(Hons) MSc Qld, PhD Griff.

H. Carberry, BAppSc(MLS) GradDipNutDiet QIT, GradDipMedia AFTRS

B.N. Cooke, MSc Qld, CertT Kelvin Grove

J.F. Coulson, BPharm(Hons) Lond., MPharm Qld, PhD Strath., PhC, MASM

C.J. Craven, MSc Qld, MAACB, AAIMLS

A.G. Edwardson, BSc(Hons) Birm., BEd MedSt Qld, MAIBiol

R.J. Epping, BSc(Hons) PhD ANU, MASBMB

T.H. Forster, MAppSc QIT, AAIMLS

P.M. Giffard, BSc(Hons) Qld, PhD Aberd.

L. Hafner, BSc(Hons) PhD LaT., MASM

S.T. Hahn, BA Berkley, DipEd Qld, PhD

R.M. Harding, BSc(Hons) PhD Qld

B.V. Harmon, BSc(Hons) PhD Qld

M.B. Harvey, BSc(Hons) PhD Qld

P. Hoebe, BSc Vrije, DipBiol D'dorf, PhD ANU, MASBMB

H.S.F. Loh, BSc NE, MASANZ

B.W. MacDonald, BSc(Hons) *Qld*, BAppSc, DMT
 J.A. Marsh, MSc DipEd PhD *Qld*, ADBiolLT *Capricornia*, QDAH
 B.J. McMahon, MSc *Qld*, CBiol, MIBiol, MAIBiol
 M. O'Brien, BSc(Hons) PhD *Qld*
 M.B. Plenderleith, BSc(Hons) *Edin.*, PhD *Brist.*
 R.J. Sheedy, BSc(Hons)
 R.M. Sherrard, BSc(Hons) MB ChB PhD *Sheff.*
 J.R. Simpson, BSc(Hons) PhD *UNSW*
 B.G. Stevens, BSc(Hons) *Qld*
 T.P. Walsh, BSc(Hons) PhD *Qld*, MASBMB
 I. Williamson, BSc(Hons) *Griff.*, PhD *Flin.*
Associate Lecturers:
 M.F. Bateson, BSc(Hons) *Qld*
 P.H. Cooke, BSc(Hons) *NE*, PhD *ANU*
 M.H. Hargreaves, BSc(Hons) *Qld*, MASM
 T. Yi, BSc *Beijing*
Laboratory Manager: W. Kerswill, BSc *Qld*, GradDipChemAnl GradDipMgt
Capricornia

School of Mathematics

Head of School: A.N. Pettitt, BSc(Hons) MSc PhD *Nott.*, FSS, MSSA
Professor: D.L.S. McElwain, BSc(Hons) *Qld*, PhD *York*
Associate Professor: H. MacGillivray, BSc(Hons) PhD *Qld*, MSSA
Senior Lecturers:
 V.V. Anh, BSc(Hons) PhD *Tas.*, MEc *NE*, MSSA
 C.M. Bothwell, BSc BEd MLitSt *Qld*, ALCM
 J. Gudgeon, BSc(Hons) *Hull*, MSc *Oxf.*, FIMA
 M.S. Mackisack, BSc(Hons) *Monash*, BA(Hons) *Macq.*, DipEd *State Coll. of Vic.*,
Rusden, PhD *ANU*, MSSA
 I.F. Ogle, MSc *NE*, FSS, FQFA, MSSA
 N.M. Spencer, BAppSc(Maths) ADElecEng *QIT*, PhD
 J. Van Leersum, BSc BE(Hons) PhD *Monash*
 J. Wrigley, CertT *Kelvin Grove*, MSc MScSt *Qld*, MLitt *NE*, PhD *Wash.S.*,
 GradDipCompEd
Lecturers:
 R.N. Buttsworth, BSc(Hons) BA(Hons) MSc DipEd PhD *Qld*
 C.C. Calder, BSc(Hons) MSc *Lond.*
 G.P. Carter, CertT *Mt Gravatt*, BSc MScSt *Qld*
 K.A. Do, BSc(Hons) *Qld*, MS PhD *Stan.*, MSSA
 R.J.B. Fawcett, BSc(Hons) PhD *Qld*, AMusA, ATCL
 H.M. Gustafson, BSc(Hons) DipEd *NE*
 D. Huang, MSc PhD *Beijing*, MSSA
 R.F. Hubbard, BA *NZ*, MLitSt *Qld*
 M. Illic, MSc *Qld*, PhD
 M.T. Kelly, BSc DipEd MLitSt *Qld*
 E. Kozan, MSc *Middle East*, PhD *Hacettepe*
 M.R. Littler, BSc(Hons) *Lond.*, DipMaths(Tech) CEng, AFIMA
 K. Mengersen, BA(Hons) PhD *NE*
 L.M. Scotney, BSc DipEd *Qld*
 B.S. Tasker, BA *NE*, MAppSc
 I.W. Turner, MAppSc *QIT*, PhD *Qld*
 E.M. Walker, BSc(Hons) *Qld*, MSc *Oxf.*, AIA *Lond.*, AAIA

D.F. Welburn, BSc *Qld*

Associate Lecturers:

G.P. Carter, CertT *Mt Gravatt*, BSc MScSt *Qld*

G.M. Cave, BSc *Lond.*, DipEng(Mech) *McG.*, AFRACS

A.R. Gover, MSc *Cant.*, DPhil *Oxf.*

D. Hill BAppSc *QIT*

C. Marshall, BAppSc *QIT*, DipEd *Qld*

School of Physics

Head of School: B.W. Thomas, MSc PhD DipEd *W.Aust.*, FAIP, MACPSEM, FAIM

Associate Professor: B.J. Thomas, BSc(Hons) PhD *W.Aust.*, MAIP, FACPSEM

Senior Lecturers: J.A. Davies, BSc(Hons) *City, Lond.*, MSc *Qld*, AIMEE

R.E. Dunlop, MSc *Qld*, MAIP, MASUM

M.A. Harkness, DipAppSc, DMU, GradDipBusAdmin, MAppSc, FIR, ASUM

T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff.*, DipRMS, MAIP

L. Morawska, MPhysics DPhysics *Jagiellonian*

T. van Doorn, BSc(Hons) *Kent*, PhD *Qld*, MACPSEM

J. Wong, DipSc *HK*, MSc *McG.*, PhD *Sask.*, MARPS, MAAPT

Lecturers:

I.R. Cowling, BSc(Hons) PhD *Flin.*, ISES

I.R. Edmonds, MSc *Auck.*, PhD *Warw.*, MAIP, ISES

R.A. Fleming, MSc *Qld*, MAIP

P.D. Killen, BSc(Hons) *ANU*, PhD *Qld*

G.J. Michael, BSc(Hons) PhD *Qld*

G.I. Moore, BSc(Hons) PhD *Qld*

R.J. Norton, BSc *Qld*, MSc *Brun.*, MAIP

F. Quintarelli, BSc(Ed) BSc(Hons) PhD *Melb.*

P.A. Rowntree, DipAppSc(DiagRad) *QIT*, GradDipEd(Tert) *Darling Downs*, FIR,
ASSUM, AISRRT, MANZAME

D.E. Starkey, DipAppSc, MIR

B. Starkoff, DipAppSc *QIT*, MAppSc, MIR, ASUM

J.D. Veitch, BArts (Ed) *Macq.*, CertRadiography(RT), MIR

Associate Lecturers:

S.J. Coyne, BSc *Qld*, MAppSc (MedPhysics)

L. Lerner, MSc *Well.*, PhD *Camb.*

M.G. Oppelaar, DipAppSc (Therapeutic) *QIT*, BAppSc(MRT)

D.J. Pearce, BSc(Hons) DipEd *NE*

Laboratory Manager: R. Bergman

Senior Technicians:

J. Dharmasim

G.W. Kibbey

D.J. Pitt

RESEARCH CENTRES

Australian Centre in Strategic Management

The Australian Centre in Strategic Management was established at QUT's Gardens Point campus by the Australian Research Council (ARC) and the Federal Department of Employment, Education and Training (DEET) in 1989 following a national competition. The Centre has links with the Australian Organisation for Quality (AOQ), Technical and Further Education (TAFE) and other universities and research centres around Australia and overseas well as with many enterprises in the private and public sectors. The Centre is a bridge between tertiary education and business enterprises, governments, unions and the wider community. It includes Australia's first Professor of Quality Management (in a Chair sponsored by the Queensland Government).

The Centre develops and disseminates to academics and practitioners, ideas, knowledge and experience emanating from research of international standards about the formulation and implementation of organisational strategies.

The Centre's policies are to:

- ☐ focus on organisational strategy, structure, design and culture, defined to include quality management, employment relations, organisational and technological change, and management development and education;
- ☐ focus on the context of small and medium-sized enterprises, as well as on large enterprises;
- ☐ maintain and further develop its role as a national and international centre of excellence in research and teaching in its selected areas of focus;
- ☐ attract researchers, academics, practitioners, consultants and resources to contribute in the Centre's areas of focus;
- ☐ bring the benefits of its research to the communities with which it interacts through publishing, designing learning opportunities, public speaking, networking and providing advisory and consulting services;
- ☐ contribute to education, for example, via its Open Seminar Series, as well as its PhD, Master of Quality, Graduate Diploma in Quality, and Management Certificate Programs and various short courses;
- ☐ be a catalyst to encourage research in the Centre's area of focus and thereby contribute to the continuing development of research and tertiary education in Australia and overseas;
- ☐ provide an environment in and around the Centre which fosters the development of staff and students' research skills and professional growth.

Research is a high priority for the Centre. It is a hub for a network of researchers including honours, masters, doctoral and postdoctoral students, visiting professors and teams of academics working with practitioners. Research is funded by a range of sources, including the federal and state governments, Australian and overseas competitive research grants, and contracts for applied research or consulting. The Centre's current projects include a three-year ARC research grant of over \$120 000 to study the impact of strategy and structure on organisational performance in Australian industry, an international study of changing employment relations in Western European, North American and Asian countries, and a

share of a one-year National Priority (Reserve) Fund grant of \$250 000 to investigate quality, leadership and management development in a university context.

The Centre convenes conferences and seminars; conducts educational programs; produces books, articles, working papers, reprints and other publications; and welcomes short-term and medium-term research visitors, who, for example, are on secondment or study leave. The Centre's significant progress towards fulfilling its mission is illustrated in its various publications, which, including its Annual Report, are available on request.

Director: Professor G.J. Bamber, BSc(Hons) *Manc.*, PhD *H-W, Edin.*, CMAHRI, FAIM, FIMgt, FIPM

Queensland Government Professor of Quality Management: I.W. Saunders, BA(Hons) *Oxf.*, DipMStats *Camb.*, PhD *ANU*

Australian Key Centre in Land Information Studies

The Australian Key Centre in Land Information Studies (AKCLIS) was established in 1985 and aims to be a world-recognised Centre of Excellence dealing with geographic information (in its broadest sense) which is of academic and commercial significance to Australia.

Participating members are QUT, the Queensland Department of Lands, University of Queensland and James Cook University of North Queensland.

The Centre's mission is to support and foster research, formal education and training in the land information industry; support industry in developing new markets for Australia and abroad; transfer and diffuse technology throughout the industry; and seek funding for research and training programs.

During 1992, the Centre convened a national workshop attracting researchers and teachers from the private and public sectors and from teaching institutions across Australia to assist in identifying the most pressing requirements still outstanding in spatial science research, education and training, thus guiding its research program. A unique Directory of Research was published.

Since 1991 the Centre delivered, participated in, or coordinated numerous training programs totalling more than four work years for local, interstate and international trainees. Over 80 per cent of the training conducted by the Centre was undertaken for overseas governments or in overseas locations. Extensive consultancies and training have been undertaken in South-East Asia, the South-West Pacific and Africa.

In an innovative advance in teaching remote sensing, the Centre developed computer-aided learning packages for use in senior high schools, undergraduate training in universities and continuing professional education. The program has won recognition and awards from the Australian Institute of Cartographers and the Australian Society for Educational Technology and is being marketed and used internationally.

The Centre also plays a role overseas and was recognised as a Centre of Excellence in Land Information Studies by the prestigious Institute for Land Information based in Washington DC. The Centre provided training for the five-year Natural Resources Management and Development Program in the Philippines which was funded by AIDAB. In addition, training in remote sensing has been conducted in the Pacific. The Centre has a postgraduate exchange program with the University of Wuhan, China and a Memorandum of Understanding with the National Institute of Urban & Rural Planning in Vietnam.

More than 70 learned papers were presented in 1994 by AKCLIS researchers at conferences, seminars, workshops and in journals both in Australia and overseas.

Director: S. Johnston, BBus(Man)QIT, MSc Bath, C.Teach, CMAHRI

Centre for Eye Research

The Centre for Eye Research was established in the School of Optometry in 1986 to coordinate the wide range of research activities in the visual and ophthalmic sciences. The Centre has a vigorous program of research investigating human vision and how the problems people have with vision may be resolved or alleviated.

In 1988 the Centre was given University Centre status and provided with support funding to pursue its mission of developing the research and postgraduate activities of the School of Optometry. In 1989, the Centre's first PhD students were enrolled.

The research activities of the Centre encompass the clinical, theoretical and applied aspects of the visual sciences. There is an emphasis on the functional and performance aspects of vision. The Centre also undertakes research for the ophthalmic and pharmaceutical industries towards the development of improved ophthalmic appliances and materials. In addition to investigating the causes of human vision problems, the Centre also undertakes research work for government, industry and business to resolve visual problems in the workplace, in transport and in industry.

The Centre for Eye Research serves as a focus for collaboration with groups internal and external to QUT. This collaboration with industry and with other research units is well established, and the Centre has attracted significant research grants from industry and government funding agencies.

The Centre's facilities and resources are unique in Queensland and provide a resource for the development of the visual and ophthalmic sciences and industries in the State.

Director: Professor L.G. Carney, BAppSc MSc(Optom) PhD *Melb.*, LOSc, FAAO

Centre for Instrumental and Developmental Chemistry

The Centre for Instrumental and Developmental Chemistry was formed in January 1992. It emphasises high quality fundamental research and expert service of community needs through research, postgraduate education, development projects and consultancy.

Research

The Centre specialises in three main areas:

Analytical Science

Research in this area was initiated within the now superseded Centre for Analytical Science. Project areas currently being researched in the analytical science program include the development of new analytical instrumentation; use of chemometrics; elucidation of three-dimensional structures of complex molecules by NMR, X-ray diffraction and mass spectrometry; and use of vibrational spectroscopy for the characterisation of polymers, minerals, biological molecules and dyes; the development of new sample introduction methods in atomic spectroscopy.

Applied Biological Chemistry

The program encompasses a wide range of industrial sectors, and research makes extensive use of the instrumental infrastructure of the Centre. Current areas of activity include the synthesis of new molecules for use in industrial electronics and in the medical field; isolation and characterisation of new compounds of medicinal benefit from natural sources; development of new synthetic procedures, especially those based on the use of enzyme technology; and development of new procedures in enzyme fermentation, enzyme technology, and biochemical engineering and processing.

Material Science

This area of Centre activities has been well supported by industrial grants. Research is carried out in a number of important areas encompassing organic, inorganic and metallic materials. Significant project areas include synthetic polymers, particularly degradation studies and polymerisation kinetics; corrosion of metals and alloys in industrial environments; investigation of the electrodeposition of copper during the refining process; study of the structure and properties of clays; and preparation of advanced ceramics by the sol-gel process.

Consulting, Testing and Continuing Education

The previous Centre for Analytical Science was very active in consulting and testing. This activity earned valuable funds and forged strong links with the industrial community, leading to joint research projects. The new Centre for Instrumental and Developmental Chemistry will continue and expand this activity. Centre staff have established a reputation in continuing education by developing short courses in corrosion science and in vibrational spectroscopy. These courses have been given in every capital city of Australia and in South-east Asia. Future opportunities exist for the Centre to expand its continuing education activities.

Equipment

Activities revolve around sophisticated, high-cost instrumentation, including mass spectrometry, nuclear magnetic resonance spectrometry, fourier transform raman and infrared spectroscopy, inductively coupled plasma emission spectrometry, inductively coupled plasma mass spectrometry, and thermal analysis.

Director: P.M. Fredericks, BSc(Hons) DPhil *Sus.*, FRACI

Centre for Mathematics and Science Education

The Centre for Mathematics and Science Education seeks to promote a numerate and scientifically literate society by coordinating research in the teaching and learning of mathematics and science. It applies this research through graduate teaching, consultancy, curriculum development and the production of educational resources. It is affiliated with the Faculty of Education, and staff are drawn primarily from the School of Mathematics, Science and Technology Education as well as from other schools and faculties. An administrative office, clinical facility, and facilities for research assistants and higher degree students are located on Kelvin Grove campus.

Research

Research is a major Centre priority. The research program may be classified broadly into five categories relating to mathematics, science and technology education:

- Cognition – acquisition of scientific and mathematical knowledge, scientific and mathematical reasoning including problem solving; study of learning environments; teacher cognition and teacher change.
- The social context of science and mathematics education including access and equity issues.
- The application of information technology to human cognition and improving the quality of learning.
- Curriculum development, implementation and evaluation.
- Adult and workplace education.

The Centre offers PhD and MEd (Research) courses and a professional doctorate in education (EdD).

Teaching

The Centre aims towards teaching excellence with a staff experienced in undergraduate, higher degree and continuing education courses, and in supervising theses in mathematics and science and technology education. The Master in Education (MEd) and professional doctorate in education (EdD) degrees are offered by coursework and dissertation and allow specialisation in mathematics, science and technology education. Staff are active in writing teacher-education materials and classroom texts in mathematics and science education.

Consultancy

Through consultancy, the Centre aims to promote success and excellence in mathematics and science for students of all ages and backgrounds. Staff are actively involved in a range of consultancy services to meet the needs of schools, industry and the general community. These services include diagnostic, remedial and enrichment activities with students; in-service seminars and short courses for industry and educators; cooperative projects with business and the Department of Education; and writing and editing for publishers. The Centre welcomes enquiries for the provision of services to the profession and the community.

Director (Acting): Dr C. J. McRobbie, BSc Qld, MSc Pacific, PhD Monash

Centre for Medical and Health Physics

The Centre for Medical and Health Physics provides a formalised focus and vehicle through which to foster the application of physics and supporting disciplines to clinical, occupational and environmental health areas in the community.

The Centre has the following functions:

- to undertake research and development relating to the clinical and health areas
- to conduct programs aimed at educating the health industry in new technologies
- to disseminate knowledge through postgraduate studies at both master and doctoral levels
- to facilitate the integrated and coordinated transfer of appropriate technology to the countries of South East Asia and the Pacific Basin by admitting overseas students to postgraduate studies within the Centre; arranging exchange between staff associated with the Centre and overseas scientists; encouraging the secondment of staff associated with the Centre to overseas countries to undertake sponsored applied research and consultancy; and offering specialist courses

- ❑ to develop new products in medical and health related fields
- ❑ to improve the performance of existing medical instrumentation by participating in quality assurance and instrumentation development projects
- ❑ to encourage the active involvement of its members, industry (in its broadest sense) and the medical profession to achieve the above.

Education

The Centre's staff provides support for undergraduate and postgraduate studies in the following programs :

- ❑ Bachelor of Applied Science – Physics major
- ❑ Bachelor of Applied Science – Medical Radiation Technology, with majors in Medical Imaging Technology and Radiotherapy Technology
- ❑ Bachelor of Applied Science (Honours) – Medical Physics
- ❑ Graduate Diploma in Applied Science, with majors in Medical Physics and Medical Ultrasound
- ❑ Master of Applied Science, with majors in Medical Physics and Medical Ultrasound
- ❑ PhD programs.

Continuing Education

The Centre offers short courses in:

- ❑ radiation health physics
- ❑ principles and practices of noise management
- ❑ management of noise in shops, offices, factories and their environs
- ❑ radiography
- ❑ environmental physics for industrial application
- ❑ diagnostic ultrasound.

Research and Consultancy

The Centre's current areas of research and development are in:

- ❑ medical physics (imaging science)
 - image analysis
 - 3D image reconstruction and presentation
 - enhancement/development of instrumentation
- ❑ medical physics (body composition)
 - in vivo measurement of toxic heavy elements
 - bioelectrical impedance measurement of body water compartments
 - electrical impedance tomography
- ❑ health physics (occupational and environmental radiations)
 - natural lighting of buildings (daylighting)
 - environmental aerosol physics
 - migration of isotopes in the environment.

The Centre's major areas of consultancy are:

- ☐ measurement of radioactivity
- ☐ shielding design for radiological practices
- ☐ measurement of light transmittance/reflectance
- ☐ measurement of noise levels
- ☐ measurement of ultraviolet radiation.

Director: Associate Professor B W Thomas, DipEd MSc PhD *W.Aust.*, FAIP, MACPSEM, FAIM

Centre for Molecular Biotechnology

The Centre for Molecular Biotechnology has as its primary objectives research and postgraduate education in medical and plant biotechnology. The Centre was established in 1988 and currently has a staff and student complement of more than 80. The Centre is located on the Gardens Point Campus in a modern, well-equipped laboratory complex with associated facilities. Postgraduate education includes PhD and Masters programs and components of the Honours and Graduate Diploma in Biotechnology courses. Undergraduate course components are also supported. Research is concentrated into a few programs and involves considerable collaboration with other Australian and overseas institutions as well as industry.

The principal research programs are:

- ☐ molecular plant virology
- ☐ human growth factor research
- ☐ chlamydia diagnosis and control
- ☐ plant tissue culture and transformation
- ☐ arbovirus pathogenesis.

Director: Associate Professor J.L. Dale, BScAgr PhD *Syd.*, MASM

Centre in Statistical Science and Industrial Mathematics

The mission of the Centre is to create new knowledge in statistical science and industrial mathematics and to bring the benefits of this knowledge, its scholarship and expertise to QUT and the community at large. This has and will be achieved through:

- ☐ performing high quality research
- ☐ providing a focus and resources for researchers to perform research in statistical science and industrial mathematics
- ☐ providing postgraduate and honours level teaching
- ☐ providing continuing education of relevance to the community
- ☐ providing a consulting service to the community
- ☐ promoting collaborative projects between the Centre and other QUT centres and organisations in Queensland, interstate and overseas.

The Centre acknowledges the need to carry out research which is of significance to industry, government and society and therefore the need to forge links with external organisations. It also aims to maintain and develop strong links with local industry by providing expert consulting in statistics and mathematics.

The Centre in Statistical Science and Industrial Mathematics has, as its main research focus, the development of statistical and mathematical models and efficient algorithms for the analysis of problems of significance to industry, government and the community. It received university centre status at the end of 1992.

The research programs of the Centre include:

- ☐ Time series analysis
- ☐ Spatial statistics
- ☐ Statistical modelling and data analysis
- ☐ Statistical theory and statistical computing
- ☐ Operations research
- ☐ Mathematical modelling of complex industrial, biological and physical systems.

There are a number of research projects in each of these areas.

A major feature of the Centre is the high proportion of collaboration in research projects with other researchers from within QUT, other universities, CSIRO, government departments and industry. Several projects involve contract research for industry.

Consulting services are provided within QUT and to external clients in industry and government by the Statistical Consulting unit and by other staff of the Centre.

The Centre has a strong postgraduate teaching program with around thirty PhD and three research masters students enrolled in 1994. Many of these students are working on collaborative projects with supervisors from outside QUT in industry or research organisations.

Staff of the Centre are involved in the provision of statistical education for postgraduate students at QUT and external organisations.

The Centre has excellent computing facilities with its own Silicon Graphics Iris and Indigo workstations, DEC Alpha workstations, networked PCs and Macs, and centrally provided research supercomputing facilities.

Director: Professor A.N. Pettitt, BSc (Hons) MSc PhD *Nott.*, FSS, MSSA

Information Security Research Centre

The Information Security Research Centre, formed in July 1988, is a joint venture between industry and QUT's Faculty of Information Technology. Since 1993 the Centre has been included within the School of Data Communications.

The Centre's activities focus on the control, management and security of computer systems and networks. Its role is to undertake research, development, consultancy and education activities in this designated area.

The Centre has areas of major research concentration in:

- ☐ cryptology
- ☐ information security management

- ❑ security in telecommunications and computer networks, including electronic data interchange (EDI), electronic funds transfer (EFT) and open systems interconnection (OSI)
- ❑ database and operating system security.

The centre supports other areas of research, such as:

- ❑ Secure Networks Laboratory (SNL). The SNL contains computer hardware and specialised security equipment to support applied research projects in information security
- ❑ reverse engineering and tools for the analysis of software systems as well as computer architecture for secure systems (CASS) in collaboration with the Programming Language Laboratory – School of Computing Science
- ❑ projects under the Distributed Systems Technologies Centre (DSTC), a Federal Government funded Cooperative Research Centre jointly set up by QUT, the University of Queensland, Griffith University and Bond University.

Since its formation, the Centre has carried out applied research and consultancy for a wide range of organisations in both the public and private sectors concerned with information security. The Centre has established research links with several overseas universities. In addition the Centre has developed its educational role by offering research Masters and PhD programs as well as teaching specialist subjects for postgraduate coursework students.

Acting Director: Associate Professor E Dawson, BSc, DipEd Wash., MASyd., MLitStud, MSc Qld, PhD, FTICA, MIEEE, MIACR

Physical Infrastructure Centre

The Physical Infrastructure Centre was established by QUT in 1990 as a national focus for civil engineering research. It is one of QUT's university centres and provides consultation, continuing education and research services.

The Centre's aim is to find real world solutions to complex civil engineering problems. With this goal in mind, the Centre works closely with the civil engineering profession, industry and government on key projects that will strengthen and upgrade Australia's physical infrastructure.

Areas of expertise include:

- ❑ Transport and transport infrastructure
- ❑ Structures
- ❑ Construction and materials
- ❑ Environmental
- ❑ Hydraulics and fluids.

Recent research projects include:

- ❑ a USA National Research Council project to update the Highway Capacity manual
- ❑ an OECD backed investigation into increasing transport efficiency through bridge/ vehicle interactions
- ❑ the development of a portal frame building system with Palmer Tube Mills
- ❑ numerous projects funded by the Australian Research Council including response of buildings subjected to earthquakes.

One of the Centre's major projects is the development of a full-scale research facility at the University's Carseldine campus. The Carseldine Field Station will allow opportunities for the Centre to engage in large scale collaborative projects with industry. An earthquake testing facility is one component currently being developed on the site.

Since the Centre's inception, researchers have produced 223 journal articles and conference proceedings and 200 other publications. The current staff includes 20 researchers and 37 postgraduates.

Director: Associate Professor G.H. Brameld, BE(Hons) BCom MEngSc PhD *Qld*, MIEAust, MIABSE

Signal Processing Research Centre

The Signal Processing Research Centre grew from a significant research concentration in the rapidly expanding area of signal processing. Established in 1986, the concentration received Faculty Centre status in 1990 and University Centre status in 1991.

The Centre supports the majority of research students in the School of Electrical and Electronic Systems Engineering. Signal processing has a wide range of application areas and has undergone explosive growth within the last 10 years. The Centre is the focus for signal processing research at QUT. It also provides an important resource for industry, government, the engineering profession and the community in general. The Centre's research activities encompass both theoretical and applied aspects of signal processing.

The Centre offers high level technological expertise combined with an ability to apply research commercially and technically.

The Centre has four main objectives:

- ☐ to remain at the forefront of technological research advances
- ☐ to provide clients with state-of-the-art results
- ☐ to provide stimulating postgraduate education
- ☐ to maintain and enhance the University's research profile.

It serves to foster postgraduate research and teaching with 23 PhD candidates and five Masters students currently enrolled with the Centre. Staff have established good contacts with academics in other Australian universities, government-funded research agencies and industries. They have also built up an international profile through conference attendance and research collaboration. The director of the Centre is the general Chairman of the International Symposium on Signal Processing and its Applications which is held biennially on Queensland's Gold Coast, and was appointed the Technical Chairman of the International Conference on Acoustics, Speech and Signal Processing which hosted 1328 delegates in April 1994.

The Centre's researchers are active in the areas of image processing, signal theory and speech processing. They undertake research for government agencies and industry to resolve a range of signal processing problems. Contracts are in place with granting bodies such as DSTO, CSIRO, Auspace and the Australian Federal Police.

The signal theory group has specialised in the areas of algorithm development for efficient signal processing implementation, detection of signals in noise, estimation of signal parameters in a noise-effected environment, sonar, radar and biomedical applications and higher-order spectral analysis.

Speech processing is involved in artificial neural network speech recognition, digital filtering, speaker verification for law enforcement agencies, voice encryption and scrambling and tape recording enhancement.

Image processing and computer vision areas have concentrated on analysis of data in digital images, development of efficient algorithms, enhancement of images for information recovery, robot vision, and computer recognition of three-dimensional objects and interpretation of images.

Director: Professor B. Boashash, BE Lyon, MSc PhD *Inst. Nat. Poly. Grenoble*, SMIEEE, FIREE

ACADEMIC AND STUDENT SERVICES

Aboriginal and Torres Strait Islander Unit

The Aboriginal and Torres Strait Islander Unit, a distinct section within the Division of Academic Affairs, performs a range of teaching, research and service functions in the University. A central activity is the recruitment and subsequent academic and counselling support of Aboriginal and Torres Strait Islander students enrolled in degree programs at QUT. Students who are supported by the Unit experience a high rate of success in University programs and later employment.

Aboriginal and Torres Strait Islander students are increasingly enrolling in the whole range of Faculties across QUT, including degree programs in Information Technology, Law, Science, Business, Nursing, Education, Arts, and Social Science. Throughout students' degree programs, Unit staff support students as they develop their study skills and professional discipline knowledge.

The Unit designs and teaches units in Aboriginal Studies and Aboriginal Education. In addition, staff from the Aboriginal and Torres Strait Islander Unit contribute lectures and workshops to a wide range of degree programs, both at undergraduate and postgraduate level. Through these teaching activities students undertaking QUT courses have the opportunity to learn about cross-cultural issues in Australia.

The Aboriginal and Torres Strait Islander Unit also engages in the professional development of QUT staff in respect to the development of appropriate skills and awareness for working in educational environments of cultural diversity. This function is also extended to the broader society, where the Unit has input in a range of government and community services. Conferences, seminars and workshops offered by the Unit bring benefit to the community.

Research into issues of contemporary concern to Aboriginal and Torres Strait Islander people is a priority activity for the Unit. In this way, the Unit seeks to contribute to the achievement of the goals of Reconciliation and social justice policy.

The Aboriginal and Torres Strait Islander Unit's central office is located at the Kelvin Grove campus, with service offices on Carseldine and Gardens Point campuses.

Coordinator: P. Duncan, DipTeach Syd.TC., BLitt ANU, MEd Canb.

Chaplaincy Services

The University caters for the emotional and spiritual needs of students and staff through the provision of Chaplaincy Services. The Ecumenical Chaplaincy is a joint venture of QUT and the major Christian denominations. There are presently two full-time chaplains working at QUT, operating on a schedule of visits to each campus.

Chaplaincy Centres and Chapel

The Chaplaincy Centres are ecumenical, and although the chaplains represent the major Christian denominations, they are available to people of other religions as well. If necessary, they are able to put people in touch with appropriate contacts from different denominations or religions.

The Chaplaincy Centres are a focus for Christians from a diversity of traditions and theological emphases. The purpose is to encourage community spirit and to be a lively

influence within each campus. The chaplains aim to relate Christian faith to both personal commitment and to the corporate structures of church and society. Activities include counselling, social gatherings, discussion groups, eucharist, prayer and meditation groups. Chaplaincy can also serve as a bridge across the divisions that may surface in any human institution.

A chapel is available at the Gardens Point campus for quiet prayer, worship services and meetings. There is also a Muslim mosque in a room adjacent to the main chaplaincy rooms.

A chaplain is available at the Chaplaincy Centres below:

GARDENS POINT CAMPUS

Old Government House
near the entrance to the Library
Telephone: (07) 864 2700

CARSELDINE CAMPUS

(weekly visit)
Contact Gardens Point campus

KELVIN GROVE CAMPUS

Room C420, Top Floor
Community Building
Telephone: (07) 864 3135.

Computing Services

The Computing Services Department provides a comprehensive range of facilities to meet staff and student needs on all QUT campuses, including:

- ☐ 24-hour computer laboratories, including wordprocessing and printing facilities
- ☐ hardware and software support for desktop computers
- ☐ training courses (free to staff and research postgraduate students)
- ☐ a university-wide network for electronic mail, and AARNet and Internet access
- ☐ mainframe host computers including a mini supercomputer for teaching and research work
- ☐ the QPSF SP2 massively parallel supercomputer for advanced research work
- ☐ a visualisation and multimedia laboratory
- ☐ management information systems support and development
- ☐ the library catalogue
- ☐ dial-in facilities for off-campus users
- ☐ service counters on each campus
- ☐ booklets, leaflets and manuals on a range of computing applications and techniques
- ☐ voice and data telephone and communications systems.

For more detailed information, buy a copy of the *Student Computing Guide* (updated annually) from the QUT bookshops, and consult the Computing Services counter on your campus.

Counselling and Health Services

The Department of Counselling and Health is an autonomous professional department of QUT which takes an active role in promoting the personal, career and educational development of students and staff and providing for their health and well-being.

Counselling and Careers Services

The Counselling Section assists with normal development needs. Personal and social matters, educational difficulties, welfare and financial issues, and decision making on future career and personal planning are some of the areas handled by counsellors.

The Careers and Employment Section organises the Campus Interview Program for final year students, and helps students prepare for these interviews. It also conducts a survey of graduate destinations in the year following graduation.

The Counselling and Careers and Employment Services offer programs designed to aid the development of personal maturity and effective patterns of living, studying and working. These include workshops on communication, assertiveness, job-hunting skills and career planning; stress management groups; and reading efficiency and tertiary learning skills programs.

Complementing these is a range of general welfare and guidance services including financial aid, course and career information and an accommodation self-help service. Contact with community agencies offering services to students is also provided.

Services are provided by professionally qualified staff. Facilities vary across campuses but generally include consultation rooms and a library of course and welfare information. Services are free of charge and available to students (both full- and part-time) and staff at all campuses, as well as to others intending to enrol at QUT in the future. All consultations are strictly confidential. Counsellors are available during normal University hours; however, out-of-hours appointments can be arranged.

GARDENS POINT CAMPUS

Lower Level

Community Building

Telephone: (07) 864 2383

CARSELDINE CAMPUS

Level 1

Community Building

Telephone: (07) 864 4539

KELVIN GROVE CAMPUS

Top Floor

Community Building

Telephone: (07) 864 3488

Health Services

QUT Health Services are available to all students and staff. Services include:

Comprehensive general practice patient-care: Lifestyle advice, including information on exercise, stress, drugs and sexually transmitted diseases; minor surgery including removal of warts, moles and sunspots; pathology services including blood tests.

'Well-woman' care: smear tests, breast examination and contraceptive advice.

Campus accident and emergency care: First aid treatment of injury and acute illness occurring on campus.

On-going nursing care: General advice on health maintenance; continuing care of injuries and minor operations; surveillance of medical conditions such as hypertension, asthma and diabetes; vaccinations and international travel advice; health education information and pamphlets.

Health Services are available on each campus and all consultations are strictly confidential. A Medicare card or Medibank book (for international students) is necessary for medical consultation.

GARDENS POINT CAMPUS

Lower Level

Community Building

Telephone: (07) 864 2321

KELVIN GROVE CAMPUS

Top Floor

Community Building

Telephone: (07) 864 3126

CARSELDINE CAMPUS

Level 2, C Block

Room C216

Telephone: (07) 864 4673

Students with Disabilities/Health Problems

Students with disabilities or health problems who may require additional assistance or support during their studies are encouraged to make early contact with the Disability Officer at the Department of Counselling and Health (telephone (07) 864 1219) or the relevant Course Coordinator. They are also requested to indicate such needs at enrolment. Those with temporary disabilities arising from accidents and illness that may occur during the year should also make known their needs if additional support services are required.

The University seeks to provide appropriate support services for students with disabilities. These may include:

- ☐ locating accessible parking for those with mobility problems
- ☐ organising effective learning/study skills workshops
- ☐ scheduling classes in accessible rooms
- ☐ lending special audiovisual equipment
- ☐ assisting with access to library resources
- ☐ arranging lecture material in different formats such as tapes, braille, large print, computer disks
- ☐ arranging a note-taker to assist in lectures
- ☐ arranging an interpreter for deaf students
- ☐ investigating alternative academic assessment procedures.

Early contact should be made with a counsellor or the Course Coordinator to discuss additional needs. Assistance with physical and study facilities and informing appropriate staff of additional needs can be expedited with early notice. An information booklet – *A Guide to Students with Disabilities* – is available on request from counsellors.

International Students

The International Students Program

QUT welcomes international students to its four Brisbane campuses. All full-time degree courses offered by QUT are accredited for offer to international students. QUT also offers a range of preparatory programs to assist international students to meet academic and English language requirements for entry to QUT courses.

An international student is any student who is not a citizen or permanent resident of Australia or a citizen of New Zealand.

There are a number of sections within QUT with specific responsibilities for aspects of the International Students Program.

International Relations Unit

The International Relations Unit is part of the Office of Educational Services within the QUT Division of Research and Advancement.

The International Relations Unit is responsible for the international promotion of QUT. Specifically, the Unit:

- ☐ coordinates publication and distribution of QUT international promotional material
- ☐ arranges for the representation of QUT at international recruitment activities
- ☐ manages the University's relationship with Australian Education Centres, commercial agents, and other relevant private and public sector agencies
- ☐ manages the University's institutional exchange programs
- ☐ receives international visitors.

GARDENS POINT CAMPUS

Level 3, U Block

Telephone: (61 7) 864 1782

Facsimile: (61 7) 221 0313

The Office of International Students

The Office of International Students is located in the Student Administration Department and is responsible for the administrative aspects of the International Students Program. The Office undertakes the following activities:

- ☐ answers all written enquiries and advises students regarding admission and course requirements for all courses including the Foundation and Bridging Programs
- ☐ processes all international student applications
- ☐ makes all offers and monitors course quotas
- ☐ handles all visa related matters
- ☐ collects tuition and Medibank payments and administers fee refund policy
- ☐ administers international student scholarships.

Application and Enrolment

All international students, except those studying Year 12 in Australia, should apply on a QUT 'F' form. Year 12 international students in Australia should apply through the Queensland Tertiary Admissions Centre (QTAC). Applications and general information about entry requirements and tuition fees for all courses may be obtained by writing to the Office of International Students.

All degree students must meet the minimum English language entry requirements of IELTS 6.5 or TOEFL 575 for entry to be confirmed. Some linguistically demanding courses (such as communication courses and postgraduate business courses) require IELTS 7 or TOEFL 600.

Following acceptance of an offer and payment of one semester's fees and one year's health cover charges, a student will be issued with an Acceptance Advice Form to apply for a visa to travel to Australia. Enrolment will be completed during Orientation.

Attendance

To meet student visa regulations, students must fulfil all course requirements. This includes full-time enrolment, defined as 75 per cent or more of a full-time credit load for the course.

Special approval must be obtained through the Office of International Students for part-time study.

Fees

Full tuition fees are charged for students enrolled in 75 per cent or more of a full-time credit load. Fees include student guild payments and all international student support services including airport greeting, accommodation service and English language support. International students are exempt from the Higher Education Contribution Scheme (HECS).

Tuition fees must be paid in advance by 26 June for Semester 2, and 10 January for Semester 1 in order for re-enrolment to be confirmed for the following semester. Failure to re-enrol or pay semester tuition fees will result in cancellation of the student visa. The Overseas Student Health Cover (OSHC) charge must be paid every 12 months before re-enrolment.

Students returning to full-time study after a period of absence or exclusion are required to pay tuition fees appropriate at the time of return.

Tuition fees are partially refunded to students who withdraw from their course up to the end of Week 6 of the semester. After that time, no refund is available. Any tuition fees refundable may only be transferred to another educational institution in Australia on production of a letter of offer from that institution or remitted offshore.

Fees for students on approved part-time study are levied pro rata according to the proportion of full-time credit points being studied.

In some limited cases, applicants on temporary resident visas may be allowed to enrol part-time. Fees are levied on a pro rata basis as for other part-time international students.

KELVIN GROVE CAMPUS

Level 1

Community Building

Telephone: (61 7) 864 3142

Facsimile: (61 7) 864 3529

GARDENS POINT CAMPUS

Level 2

U Block

Telephone: (61 7) 864 2696

Facsimile: (61 7) 864 2368

International Student Services

Living and studying in a new country requires significant adjustment in terms of language, culture and style of learning. In addition to the academic and professional challenges, students experience considerable personal and social development. Because international students do not have their usual sources of support and assistance (family, friends, community groups) available to them, QUT provides extensive support services.

International Students Services is located in the Department of Counselling and Health and is responsible for the following:

- ☐ conducting pre-departure briefings
- ☐ arranging on-arrival reception and accommodation
- ☐ conducting Orientation Programs
- ☐ offering direct counselling and welfare support
- ☐ developing student and community support networks
- ☐ arranging social and cultural activities
- ☐ offering English as a second language and learning skills support

- ☐ ensuring preparation for students returning home
- ☐ assisting graduate employment.

GARDENS POINT CAMPUS

Lower Level
Community Building, Y Block
Telephone: (61 7) 864 2383
Facsimile: (61 7) 864 1522

KELVIN GROVE CAMPUS

Top Floor
Community Building
Telephone: (61 7) 864 3488
Facsimile: (61 7) 864 3655

CARSELDINE CAMPUS

Level 2
Community Building
Telephone: (61 7) 864 4539
Facsimile: (61 7) 864 4999

International Education Programs

The International Education Programs' major function is to help international students meet QUT entry requirements and access professional employment. Courses offered include:

- ☐ the Foundation Program
- ☐ English language programs (ELICOS) and Bridging Program
- ☐ Migrant professional programs.

QUT Foundation Program

The QUT Foundation Program prepares international students for almost all undergraduate courses at university level. It provides students who do not meet degree entry requirements with an opportunity to gain eligibility for entry into QUT faculties.

QUT Foundation Program students who attain the minimum results for entry to a degree, as specified by the relevant faculty, will be guaranteed a place in the QUT degree course for which they have applied.

QUT English Language Programs (ELICOS) and Bridging Program

QUT General English (GE) courses

General English courses are offered in six-week sessions. Courses cater for students at all levels of English language from elementary to intermediate and advanced.

QUT English for Academic Purposes (EAP) courses

The English for Academic Purposes course is offered in twelve week sessions and caters for students with an advanced level of English who are about to commence a degree program at university.

The EAP program aims to develop specific study and language skills in English needed to undertake academic study successfully in Australia. The course includes an IELTS preparation component.

QUT English for Business Purposes (EBP) courses

The English for Business Purposes course is offered in twelve week sessions and helps students develop their English in business communication. The course caters for a wide

variety of students who need to be able to use English effectively for work or business studies.

QUT Bridging Program

The Bridging Program is designed for students who plan to study at QUT in an undergraduate or postgraduate program in the following year and who already meet minimum academic admission criteria for their course. The Program is available in Semester 2, commencing in July.

Students will be given an opportunity to:

- ☐ familiarise themselves with QUT and its facilities, such as libraries and computer systems
- ☐ develop an understanding of academic and language skills needed for tertiary study in Australia
- ☐ undertake IELTS preparation (if necessary)
- ☐ study a unit for a credit towards their degree
- ☐ make friendships and establish a network of contacts
- ☐ be in a comprehensive study support program.

QUT Migrant Professional Programs

MPP offers advanced ESL courses for unemployed overseas-trained professionals who require English language training and work experience in order to access professional employment or tertiary study in Australia. These courses are funded by DEET under the Special Intervention Program and access is through the CES.

International Education Programs are on Kelvin Grove campus.

Further information:

Foundation Programs

Telephone: (61 7) 864 5912

Facsimile: (61 7) 864 5910

English Language Programs (ELICOS) and
Bridging Program

Telephone: (61 7) 864 3095

Facsimile: (61 7) 864 3085

Migrant Professional Programs

Telephone: (61 7) 864 3579

Facsimile: (61 7) 864 3085

International Continuing Professional Education

Programs have been developed and are conducted for groups of international participants for Queensland agencies, corporations, government departments and overseas universities. QUT Continuing Professional Education will respond quickly to requests for specifically designed training programs from anywhere in the world.

GARDENS POINT CAMPUS

Top Floor, U Block

Telephone: (61 7) 864 2196

Facsimile: (61 7) 864 5160

QUT Foundation

The QUT Foundation strengthens relationships between the University and the wider community to extend the quality of QUT's research and education programs.

Through the support of corporations, government, industry, professional bodies and individual sponsors, the QUT Foundation offers a range of bursaries, scholarships and prizes to QUT students.

For further information contact (07) 864 2821.

The Alumni Relations Unit at QUT provides services and programs for graduates to enhance professional development, promote lifelong learning and create opportunities for all graduates to keep in touch with their alma mater and university friends.

Graduates are invited to participate in activities which add further value to the University's teaching programs. Guest lecture series, panel discussions and participation in the QUT Mentor Scheme are just some of the programs initiated to ensure QUT students are in touch with their future peers and employers in the real world.

Students can become student members of existing alumni constituent chapters. Existing chapters include: BEESA (Built Environment and Engineering and Surveying Alumni), Nursing, Home Economics, Optometry, MBA and Occupational Health and Safety.

For further information and application forms contact the Alumni Relations Unit on (07) 864 2147 or visit the office, Level 12, ITE Building, Gardens Point campus.

University Library

Students and staff of QUT have access to a wide range of information and audiovisual services and professional advice in these areas. Holdings of books, periodicals and other media have been developed in conjunction with teaching and research in the University and primarily reflect these activities. Materials are arranged on open access shelving. Access is provided via online catalogues available within the library buildings, via campus networks, and on a dial-in basis for persons with modems.

Locations

Libraries are located on all campuses. There is a separate Law Library at Gardens Point and a joint QUT/TAFE.TEQ library at the Sunshine Coast Centre.

Hours

Hours differ from campus to campus and sometimes at different service points within a library. Opening hours details are available through the Library catalogue and are advertised at each location and through a variety of publications.

Membership

All staff, full-time and part-time students are automatically members of the Library and may borrow materials on any campus. Identification cards are required whenever and wherever a user borrows.

The QUT Library has extensive reciprocal borrowing arrangements with Griffith University. As well, staff and students may also be eligible to register for reciprocal privileges from a number of other tertiary institutions. Details are available from Loans Desks.

Services

A variety of services is available on most of the campuses.

Information Services

Staff are on duty at the Information Desks to answer queries and assist users in finding and using collections and resources. If the materials required by users are not held on their home campus, they may request an intercampus loan. Similarly, users with special research needs may be eligible for an interlibrary loan if the items are not held anywhere within QUT. Special reciprocal loans may be requested if the items are held by Griffith University. Online searches of a large number of databases are also available.

Academic Liaison

Consultation with academic staff on the development of resources and services is achieved through a liaison service. A reference librarian works closely with each School in order to ensure that collections and programs reflect School priorities.

User Education

Professional staff teach students efficient information-seeking skills through a variety of formal and informal programs. Persons interested in these programs may wish to contact the User Education Coordinator (telephone (07) 864 1592). As well, teaching staff may contact their reference librarian and students should enquire at the Information Desk or ask their lecturers.

Other facilities

Facilities for study include study carrels, seminar rooms, lecture theatres and supporting audiovisual, computing and photocopying facilities. Appropriate consultancies are also available. Guides to collections and services may be found near the main entrance of each library location.

PRIZES AND AWARDS

The following list of prizes are subject to final approval by respective donors and may be changed or withdrawn without notice.

University Medals

The University may award medals known as Queensland University of Technology Medals to graduands of certain courses who have achieved an exceptionally high level of performance in their studies.

Eligibility to be considered for the award of a University Medal will be limited to:

- ☐ graduands of honours degrees where performance in the related bachelor degree is also taken into account
- ☐ graduands of degrees with honours
- ☐ graduands of bachelor degrees of at least three years' normal duration where no honours award is available.

In completing one of the above degrees, graduands must have been enrolled at QUT for at least two years of full-time study or equivalent.

For the award of a medal, a graduand should have reached a distinguished academic standard based on a grade point average in all units and in a thesis where such is required. The standard should be at a higher level than would normally be expected from an excellent graduand. The medal should be testimony that the recipient not only shows exceptional academic promise at the time of the award, but also exhibits a distinguished record of achievement throughout the whole of the degree.

Because the University Medal is awarded only for outstanding achievement, Academic Committee has indicated as a guide to faculties that the proportion of graduands who may receive medals in any year should normally be not more than one per 200 bachelor-level graduands (or part thereof) per faculty. It is possible that in some years faculties would choose not to recommend a medallist.

The award is a silver medallion, suitably embossed and inscribed, together with a certificate attesting the award. The medallion is five centimetres square with rounded corners. The QUT logo is embossed one side and the reverse carries an inscription citing the year of the award, the name of the awardee and the degree undertaken. Further details may be placed on the certificate.

Awards are made at April graduation ceremonies.

Faculty of Arts

4MBS Prize

Awarded to the student who gives the best performance of a distinctly twentieth-century music composition at the annual competition in October.

Australian Academy of Music Composition Prize (Instrumental)

Awarded for the best instrumental composition in a jazz or popular style, following the annual competition held in second semester.

Australian Academy of Music Composition Prize (Vocal)

Awarded for the best composition in a jazz or popular style, following the annual competition held in second semester.

Dorothy Birt Memorial Prize

Awarded to the most outstanding student enrolled in the Master of Arts (Visual Arts) in the area of textiles.

Robert and Kay Bryan/Jack Manton Art Prize

Awarded to the final year student of the Bachelor of Arts (Visual Arts) who submits the most outstanding work in one or more studio areas.

Charles Hall Prizes

Awarded:

- ☐ to the student with the best results in first year of the Bachelor of Arts (Music), and
- ☐ to the student with the best results in second year of the Bachelor of Arts (Music).

Palings Prize

Awarded to a first year Bachelor of Arts (Music) student who, in the opinion of the examination panel, performs the best classical music program in the chief practical examination at the end of the year.

QUT/QYO Concerto Composition Prize

Awarded to the student who best performs a concerto movement or a work for soloist and orchestra.

Faculty of Built Environment and Engineering

The majority of prizes awarded to students in the Faculty of Built Environment and Engineering are determined on the basis of excellence in units nominated by the prize donor. In most instances students do not apply for the awards unless otherwise stated.

* indicates those prizes for which students are required to apply in order to be considered.

A G Scott Memorial Prize

Donated by Mr and Mrs R W Scott in memory of their son, Mr A G Scott, a graduate of the Bachelor of Engineering (Mechanical) course. The prize is awarded annually to a final year student in the Bachelor of Engineering (Mechanical) who demonstrates the greatest improvement in innovative ability and competence in mechanical engineering design or attains the best overall performance in design work.

Andrew Brock Memorial Prize

Donated by the staff of Utah Development Company (now BHP Mining) in memory of Andrew Brock and awarded to the student with the best performance in the second year of the Bachelor of Built Environment.

Allgas Bursary*

Awarded to a third-year student in the Bachelor of Engineering (Mechanical) on the basis of a number of criteria including academic merit and practical experience.

Ardel Limited Awards

Awarded:

- ☐ to a full-time student with the best performance in the first year of the Bachelor of Applied Science (Property Economics).
- ☐ to a full-time second year student in the Bachelor of Applied Science (Property Economics) with the best performance in the unit 'CNB626 Land Development Studies'.
- ☐ to a full-time student with the best overall performance in the second year of the Bachelor of Applied Science (Property Economics).

Association of Public Authority Surveyors Prize

Awarded to the Bachelor of Surveying first year student who obtains the best academic result in the unit 'PSB325 Land Surveying 1'.

AURISA (Queensland Chapter) Prizes

Donated by the Australian Urban and Regional Information System Association (Queensland Chapter) and awarded to:

- ☐ the student in the Bachelor of Surveying with the best result in 'PSB342 Spatial Information Science 1'
- ☐ the student in the Bachelor of Applied Science (Surveying) with the best result in 'SVB563 Land Information Systems 2'.

Australian Asphalt Pavement Association (Queensland Branch) Prizes

Awarded:

- ☐ to the student in the Bachelor of Engineering (Civil) with the best overall performance in the unit 'CEB211 Highway Engineering'.
- ☐ to the student in the Bachelor of Engineering (Civil) with the best overall performance in the unit 'CEB506 Pavement Design and Rehabilitation Techniques'.
- ☐ to the student in the Bachelor of Engineering (Civil) for the best design in flexible pavements in the unit 'CEB211 Highway Engineering'.

Australian Design Awards Student Award

Awarded to the student developing the most outstanding product design during their Industrial Design studies at the University.

Australian Institute of Building, Queensland Chapter Prize

Awarded to the student with the best academic achievement in the third or successive years of the Bachelor of Applied Science (Construction Management).

Australian Institute of Cartographers (Queensland Division) Prizes

Awarded to the best student of the Bachelor of Applied Science (Surveying) – Cartography strand or the Bachelor of Surveying – Mapping Strand for their performance during the year.

Australian Institute of Project Management, Queensland Chapter Prizes

Awarded:

- ☐ to the Graduate Diploma in Project Management student with the best performance in the course.
- ☐ to the Master of Project Management student with the best dissertation.

Australian Institute of Refrigeration, Air Conditioning and Heating, Queensland Division Prize

Awarded to the student associated with the industry, who obtains the best performance in units in the School of Mechanical and Manufacturing Engineering dealing with refrigeration, air conditioning or heating.

Australian Institute of Quantity Surveyors (Queensland Chapter)/David McNeill Memorial Award

Awarded to the final year student of the Bachelor of Applied Science (Quantity Surveying) who shows the highest standard of proficiency in quantity surveying expertise.

Australian Institute of Valuers and Land Economists (Queensland Division) Prize

Donated by the Australian Institute of Valuers and Land Economists, Queensland Division and awarded to the student with the best performance in the final year of the Bachelor of Applied Science (Property Economics).

Australian Road Federation (Queensland Region) – Road Study Award

Awarded to a student in the Bachelor of Engineering (Civil) who prepares the best assignment in the unit 'CEB512 Transport Engineering 1'.

Australian Water and Wastewater Association/Don King-Scott Memorial Prize

Donated by the Queensland Division of the Australian Water and Wastewater Association in memory of Don King-Scott's contribution to public health engineering in Queensland. The prize is awarded to the graduating student who gains the highest aggregate mark in the units 'CEP172 Water Quality Engineering', 'CEP174 Public Health Engineering Practice' and 'CEP276 Advanced Treatment Processes' in either the Graduate Diploma in Municipal Engineering or the Master of Engineering Science (Civil).

Beachfront Developments and Resorts Prize

Awarded to fourth or fifth year Bachelor of Architecture students with the best design project relating to a unit matter nominated by Beachfront Developments and Resorts Pty Ltd.

Board of Architects of Queensland Prizes

Awarded:

- ☐ to the student who shows the greatest proficiency during the first three years of the architecture courses.
- ☐ to the student who shows the greatest proficiency on graduation from the Bachelor of Architecture.

Built Environment and Engineering Student Seminar Awards/Dean's Seminar Award

Awarded to a final year student of an undergraduate degree in the Faculty of Built Environment and Engineering for excellence in the presentation of a seminar. The seminar may be based on final year project work or on an industry related project. Participants will be selected at a school level to represent their respective discipline. A judging panel will select an overall winner at an evening presentation of the seminars.

CMPS & F Prize for Engineering*

Donated by CMPS & F and awarded to the student who, on completion of the second year of a Bachelor of Engineering, has the potential to become a useful member of the engineering profession. The prize is determined with 60% based on grade point average and 40% based on personal interview to assess: interpersonal skills, participation in campus activities and future plans in the profession. The prize provides financial assistance and work experience for the recipient in the third and fourth years of their course.

Cottrell Cameron and Steen Surveys Pty Ltd Prize

Awarded to the student in the Bachelor of Applied Science (Surveying) or the Bachelor of Applied Science (Surveying)/Bachelor of Information Technology who obtains the best result in the unit 'SVB443 Photogrammetry 2'.

Dean's Awards For Excellence

Awarded to the top graduand in each undergraduate course in the Faculty of Built Environment and Engineering.

Department of Lands Prize for Dux of the Course

Awarded to the graduate who achieves the highest aggregate mark in the Graduate Diploma in Surveying Practice.

Design Institute of Australia Award

Awarded to the outstanding design student in the final year of the Graduate Diploma in Industrial Design.

The Director-General Department of Transport Prize for Engineering and Detail Surveying

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in Engineering and Detail Surveying.

DSTO Microwave Radar Undergraduate Prize

Awarded to the final year student in the Bachelor of Engineering (Electrical and Computer Engineering or Aerospace Avionics), or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology who submits the final year project of exceptional merit in an area of technology relevant to microwave radar.

Electric Energy Prizes

Donated by the South East Queensland Electricity Board and awarded to:

- ☐ the Bachelor of Engineering (Electrical and Computer Engineering) student with the best performance in designated units relevant to electric energy.
- ☐ the graduate of the Associate Diploma in Electrical Engineering with the best performance in designated units relevant to electric energy.

ESSO Engineering Design Awards

Donated by Esso Australia Limited to students across three engineering disciplines (Civil Engineering; Electrical and Electronic Systems; and Mechanical and Manufacturing Engineering) for excellence in engineering design for a project produced during the final year. The design must demonstrate a range of professional skills: an understanding of market needs, a practical approach to problem solving, and the ability to present the project in a clear, concise, professional manner.

Golder Associates Geotechnical Engineering Studies Award

Donated by Golder Associates Pty Ltd and awarded to a student of the Bachelor of Engineering (Civil) who has obtained high aggregate marks for the units 'ESB519 Geology for Engineers', 'CEB240 Soil Mechanics 1' and 'CEB241 Soil Mechanics 2' and, in addition, is interested in working in Geotechnical engineering and is seen to have personal skills and attributes required for advancement within that field.

Hardie Iplex Pipeline Awards*

Donated by Hardie Iplex Pipelines and awarded to a student enrolled in the penultimate year of the Bachelor of Engineering (Civil) and the Associate Diploma in Civil Engineering. The awards are made on the basis of academic performance in units related to water engineering or engineering practice, together with consideration of the students' interests and involvement in engineering practice and activities both within the University and the community.

Hastings Deering Bursary*

Awarded to a fourth year student in the Bachelor of Engineering (Mechanical). Criteria include academic achievement and demonstrated interest in equipment maintenance and its importance in today's mining environment.

Heilbronn and Partners Pty Ltd Prize

Awarded to the student with the highest average result in the units 'SVB561 and SVB664 Land Development Practice 1 and 2' in the Bachelor of Applied Science (Surveying).

Heilbronn and Partners Pty Ltd Prize for Survey Project Management

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in Survey Project Management.

Institute for Drafting and Design Australia Prize

Awarded to a graduate of an Associate Diploma in Engineering who obtains the best average results over any four engineering drawing units.

Institution of Electrical Engineers, United Kingdom Prize

Awarded to the honours student submitting the best project in the final year of either the Bachelor of Engineering (Electrical and Computer Engineering or Aerospace Avionics) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology.

Institution of Engineers, Australia – J H Curtis Award

Donated by the Institution of Engineers, Australia (Queensland Division) and awarded annually to a Bachelor of Engineering student who submits the best final year project.

Institution of Engineers, Australia – Electrical College Student Award

Awarded to the final year student in the Bachelor of Engineering (Electrical and Computer Engineering or Aerospace Avionics) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology with the highest grade point average who is also a student member of the Institution of Engineers, Australia.

Institution of Surveyors, Australia (Queensland Division) – Centenary Prize

Awarded to a second year student of the Bachelor of Surveying who demonstrates a good academic record and a sincere interest in the surveying profession.

Institution of Surveyors, Australia (Queensland Division) – S E Reilly Prize

Awarded to the final year student of the Bachelor of Applied Science (Surveying) who is judged most proficient in practical work as well as academic work, taking into account community spirit as displayed by willingness to take part in activities outside the scope of the formal degree course.

Institution of Surveyors, Australia (Queensland Division) and Peter W Dawson & Associates Pty Ltd Prize for Professional Practice

Donated jointly by the Institution of Surveyors, Australia (Queensland Division) and Peter W Dawson & Associates Pty Ltd and awarded to the graduate of the Graduate Diploma in Surveying Practice who has demonstrated a thorough understanding of the legal responsibilities of surveyors, a high level of professionalism and a commitment to working for the furtherance of the profession.

IREE – MITEC Awards

Donated by the Institution of Radio and Electronics Engineers, Australia (Brisbane Division) and MITEC Australia Ltd and awarded:

- ☐ to the student who performs best in units relating to electronics and communications in the final year of the Associate Diploma in Electrical Engineering.
- ☐ to the student who performs best in units relating to electronics and communications in the final year of the Bachelor of Engineering (Electrical and Computer Engineering or Aerospace Avionics).

James Hardie Design Award

Awarded to the student in the third or fourth years of the Architecture courses whose project shows a high degree of excellence of design and imaginative and creative use of Hardie's building products for functional, practical and aesthetic purposes.

James Hardie Prize for Building

Awarded to the student in the third year of the Bachelor of Applied Science (Construction Management) with the best results over five semesters in 'Construction' units.

Jasco Pty Ltd Prize

Awarded to the Bachelor of Technology (Mechanical) student with the best performance in 'MEB773 Design for Manufacturing 1'.

John Grayson Pike Memorial Prize for Cadastral Surveying

Donated by the Association of Consulting Surveyors (Queensland) and Pike Miris McKnoulty Pty Ltd and awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in cadastral surveying.

John Kindler Memorial Prize*

Awarded in memory of Mr John Kindler, former Chief Engineer in the Co-ordinator General's Department, to a graduate of the Bachelor of Engineering for outstanding performance throughout the course. Selection is based not only on academic achievement, but requires an involvement in sport, campus and general community activities, concern for and relation with peers and a mature approach to their potential as a graduate. Candidates must attend a personal interview.

Jones Lang Wootton (Qld) Pty Limited Prize for Commercial Property

Donated by Jones Lang Wootton (Queensland) Pty Limited and awarded to the student with the most outstanding performance in the unit 'CNB564 Valuation 7' in the Bachelor of Applied Science (Property Economics).

J V Lawson & Associates Pty Ltd Prize

Awarded to the student in the second year of the Bachelor of Surveying who demonstrates the highest level of achievement in practical work in the units 'PSB328 Land Surveying 4' and 'PSB329 Land Surveying 5'.

Karl Langer Memorial Award

Donated by the Australian Institute of Landscape Architects and awarded to a student in the Graduate Diploma in Landscape Architecture who, in the opinion of the adjudicators, shows marked potential for the practice of landscape architecture.

Keilar Fox and McGhie Pty Ltd Prize for Mapping

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in mapping.

Leica Instruments Pty Limited Prize

Awarded to the student with the best performance in the unit 'PSB306 Cartography 1' in the Bachelor of Surveying or the Bachelor of Surveying/Bachelor of Information Technology.

Local Government Engineering Prize

Donated by the Queensland Foundation for Local Government Engineering and awarded to the graduating Bachelor of Engineering (Civil) student who obtains the best overall performance in the units 'CEB405 Civil Engineering Design 2', 'CEB313 Traffic Engineering', 'CEB371 Water and Waste Water Systems', 'CEB305 Construction Planning and Economics' and where appropriate, 'CEB401 Design Project' and/or electives.

Louvre Windows Australia Prize

Awarded to the student who obtains the highest mark in the unit 'FNB116 Financial Management for Engineers' in the final year of the Bachelor of Engineering (Mechanical).

Michael P Schloman Memorial Prize in Built Environment

Donated by Astra Panels Pty Ltd and awarded to a student undertaking the Bachelor of Built Environment who at the first attempt shows the greatest overall proficiency in the first year units of the course or its equivalent.

MIM Holdings Limited Prize – Engineering

Awarded to a final year student in a Bachelor of Engineering course who undertakes a project of mutual benefit to the University and MIM Holdings Limited which is of a high academic standard.

Minister for Housing, Local Government and Planning – Town Planning Prize

Awarded to the final year student in the Graduate Diploma in Urban and Regional Planning whose thesis is considered to contribute most towards the advancement of town planning in the area of local government.

MTIA – F L Hudson Memorial Foundation Achievement Award

Awarded to the Bachelor of Technology (Mechanical) student who successfully completes all units in the first two years of the course and who has the highest aggregate score over those two years.

National Trust Historic Building Prizes

Awarded to two final year students, one from the School of Architecture, Interior and Industrial Design and one from the School of Planning, Landscape Architecture and Surveying, for a thesis (or project) study of an historic building or precinct.

Neville Lund Memorial Prize

Awarded to the student in the final year of the Bachelor of Built Environment (Landscape Architecture or Urban and Regional Planning major) for the best project in integrated environmental design.

Noel Robinson Architects Prize

Awarded to the Dux of the sixth year of the Bachelor of Architecture determined by the best overall grade point average.

Norman Disney and Young Prize for Property Management

Donated by Norman Disney and Young and awarded to a Bachelor of Applied Science (Property Economics) student with the most outstanding performance in 'CNB665 Property Management 1' and 'CNB666 Property Management 2'.

Paddy Behan Memorial Prize – Design in Landscape Architecture

Donated by the Local Government Association of Queensland and awarded to the student in the Graduate Diploma in Landscape Architecture who shows the most outstanding ability in the final year unit 'PSP217 Landscape Design'.

Paddy Behan Memorial Prize – Planning Study

Donated by the Local Government Association of Queensland and awarded to the student with the best performance in 'PSN121 Planning Project' in the Master of Built Environment (City and Regional Planning).

Peter McAnally Memorial Prize

Donated by the staff of the School of Civil Engineering in memory of their esteemed colleague and lecturer in geotechnical engineering and awarded to the best student in the elective units 'CEB541 and CEB542 Geotechnical Engineering 2 & 3'.

Queensland Cement Limited Bursary*

Available to undergraduate students who have completed semester one of their second last year of study in the faculties of Science, Business or Built Environment and Engineering. Criteria includes academic merit, career ambitions, communication skills and extra-curricula interests.

Queensland Cement Limited Prize

Awarded to the fourth year student in the Bachelor of Applied Science (Construction Management) with the best academic performance in building technology units over the four years of the course.

Queensland Department of Transport Prizes

These prizes are awarded to officers of the Queensland Department of Transport in attendance at this University with the best performance in the Bachelor of Engineering (Civil) – part-time and the Associate Diploma in Civil Engineering – cadet draftsman.

Queensland Electronic Development Association Prize

Awarded to the student in the Bachelor of Engineering (Electrical and Computer Engineering) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology with the best performance in the units 'EEB820 Engineering Management' and 'EEB821 Production Technology and Quality'.

RACQ Prize in Highway Engineering

Donated by the Royal Automobile Club of Queensland and awarded to the final year student in the Bachelor of Engineering (Civil) who attains the highest average marks in highway, traffic and transportation units, including any related final year project.

Rider Hunt Research Prize for Quantity Surveying

Awarded to the student in the Bachelor of Applied Science (Quantity Surveying) who has submitted the research paper judged to have the highest standard both in content and presentation, on a topic related to the quantity surveying profession.

Robert S Brodribb Memorial Prize

Donated by the Institute of Municipal Engineering Australia (Queensland Division Inc) and Mrs R S Brodribb and awarded to the student who exhibits the most outstanding performance in those units related to or qualifying persons for the issue of a Certificate of Competency as a Local Government Engineer.

Rocla Prize

Donated by Rocla Pipeline Products and awarded to the Bachelor of Engineering (Civil) third year student who achieves the best academic results from both the final examination and class assignment in 'CEB305 Construction Planning and Economics' and 'CEB307 Construction Practice'. The selected student must show an aptitude for construction management.

Royal Australian Institute of Architects – QIA Medallion

Awarded to the most outstanding student in the sixth year of the Bachelor of Architecture. The student must have shown consistent progress throughout the course.

Royal Australian Planning Institute Prizes

Awarded:

- ☐ to the final year student with the best overall performance in the Graduate Diploma in Urban and Regional Planning.
- ☐ for the best performance by a final year student in either the Urban and Regional Planning or Landscape Architecture strand of the Bachelor of Built Environment.
- ☐ to the student in the first year of the Graduate Diploma in Urban and Regional Planning who, in the opinion of the Head of School, has achieved the best overall performance for the year.
- ☐ to the student in the second year of the Graduate Diploma in Urban and Regional Planning who, in the opinion of the Head of School, has achieved the best overall performance for the year.

Society for Growing Australian Plants Prize

Donated by the Society for Growing Australian Plants (Queensland Region) Inc and awarded to a student in the Graduate Diploma in Landscape Architecture for the best design using Australian native plants.

Society of Engineering Associates Award

Awarded to the outstanding graduate of an Associate Diploma in Engineering.

Society of Manufacturing Engineers Prize

Awarded to the full-time final year student in the Bachelor of Engineering (Manufacturing Systems)/Bachelor of Business (Marketing) who submits the best project in the unit 'MEB900 Manufacturing Project'.

Suncorp Property Economics Prize

Donated by Suncorp Insurance and Finance and awarded to the student in the Bachelor of Applied Science (Property Economics) with the most outstanding performance in 'CNB465 Property Investment Analysis 1' and 'CNB466 Property Investment Analysis 2'.

Surveying Staff Prize

Donated by the staff of the Discipline of Surveying and awarded to the student in the Bachelor of Surveying who completes second year with the highest average result in the units 'PSB315, PSB316 and PSB317 Land Administration 1, 2 & 3'.

Telecom Engineering Prize

Awarded to the third year full-time student in the Bachelor of Engineering (Electrical and Computer Engineering or Aerospace Avionics) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology completing 'EEB661 Information Theory and Noise' at the first attempt, who achieves the highest semester GPA in the semester in which EEB661 is completed.

Thomson Adsett & Partners Bursary*

Awarded to a third year student of the Bachelor of Built Environment (Architectural Studies) or Bachelor of Architecture on the basis of academic achievement, demonstrated expertise, commitment to professional development and inter-personal skills.

Urban Design Advisory Council Surveying Prize

Donated from a fund established by the Urban Design Advisory Council and awarded to the student enrolled in the Bachelor of Applied Science (Surveying) who produces the best urban design in the final year of the course.

Urban Design Advisory Council Town Planning Prize

Donated from a fund established by the Urban Design Advisory Council and awarded to the student in the Master of Built Environment (City and Regional Planning) who submits the best option project in the final year of the course.

Faculty of Business

Please note that students are required to apply to the Faculty of Business for bursaries and scholarships.

Accountancy Placements Pty Ltd Prize

Awarded annually to the student enrolled in the Bachelor of Business who attempts for the first time the unit 'FNB123 Managerial Accounting 1' and achieves the best academic result.

Advertising Institute of Australia Prize

Awarded to the Bachelor of Business (Advertising) graduate who achieves the highest aggregate marks in the seven unit advertising major.

AMP Society Award

Awarded to the student group which produces the best community relations project in the unit 'MKB117 Public Relations Campaigns'.

Ansett Airlines/CIT Prize for Transport Economics

Awarded to the Bachelor of Business student who achieves the best academic result in the unit 'EPB168 Transport and Communication Economics'.

Applied Micro Systems (Aust) Pty Ltd Prize

Awarded to a selected third year marketing student who demonstrates proficiency and potential in the field.

Arthur Andersen & Co Medal

Awarded to a students enrolled full-time in the Bachelor of Business (Accountancy), Bachelor of Business (Banking and Finance) or the combined Bachelor of Business (Accountancy)/Bachelor of Law course entering their final full-time year of study. Students will have completed at least 12 units while enrolled in one of the above courses at QUT. Selection is initially based on academic achievement, students then undertake an interview designed to assess motivation, communication and interpersonal skills and initiative.

Association of Taxation and Management Accountants Prizes

Awarded:

- ☐ to the student undertaking the Accountancy extended major, enrolled in the Bachelor of Business degree, who has achieved the best academic result in the unit 'ALB132 Taxation Law'.
- ☐ to the top two (2) Bachelor of Business students majoring in Accounting or Banking and Finance with the best academic result in the units 'FNB123 Managerial Accounting 1' and 'FNB124 Managerial Accounting 2'.
- ☐ to the Bachelor of Business student, majoring in Accountancy or Banking and Finance, with the best performance in 'ALB133 Taxation of Business Entities'.

Australian Association of National Advertisers Prize

Awarded to a graduand of the Bachelor of Business (Advertising) major who attains the most meritorious overall results in the last eight semester units studied.

Australian Human Resources Institute Prizes

Awarded:

- ☐ to the graduating student with the best overall performance in the Bachelor of Business (Human Resource Management) course, and
- ☐ to the second year student with the best overall performance in the Bachelor of Business (Human Resource Management) course.

Australian Institute of Bankers Prize

Awarded annually to the student who obtains the highest aggregate marks in the unit 'FNB114 Financial Institutions – Lending'.

Australian Institute of Management Prizes

Awarded:

- ☐ to the Bachelor of Business (Management) student for high achievement on completion of units which comprise the first full-time year of the Bachelor of Business, and
- ☐ to the Bachelor of Business (Management) student for consistently high achievement on completion of units which comprise the second full-time year of the Bachelor of Business.

Australian Society of Certified Practising Accountants Prizes

- ☐ To qualify, a student must be studying the Bachelor of Business course majoring in Accountancy or Banking and Finance full-time for the first time. The student must pass at least eight units in the first year of enrolment including 'AYB110 Accounting', 'AYB111 Financial Accounting', and 'ALB110 Business Law'. The student with the best grade point average over the eight units is the recipient of the prize.

- ❑ To qualify, a student must have studied Accountancy full-time over the previous two years and have completed at least 16 units. The second year student with the greatest grade point average over the best eight units studied in the second year of enrolment is the recipient of the prize.
- ❑ Awarded to the full-time graduating student in the Bachelor of Business course majoring in Accountancy or Banking and Finance, who completes the course in minimum time, who is eligible for membership of the Australian Society of Certified Practising Accountants and who has the best grade point average.

Australian Stock Exchange Prize

Awarded to the student/s undertaking 'MKB132 Government and Financial Relations' for the best strategy to educate the Queensland investment community on how technology is increasing ASX efficiency and ease of information access for the investor.

B105 FM Scholarship

Awarded to a Bachelor of Business student specialising in the communication field – advertising, film and television, journalism and public relations. Students must have completed second year full-time (or its equivalent), be undertaking a major in one of the communication areas and have enrolled to study third year full-time at this University.

BHP Australian Coal Limited Prize

Awarded:

- ❑ to the most outstanding graduate in the Graduate Diploma of Business (Industrial Relations).
- ❑ to the most outstanding graduate in the Associate Diploma of Business (Industrial Relations).

Brisbane Commercial Radio Stations Prize

Donated by the Federation of Australian Radio Broadcasters and awarded to the Bachelor of Business (Journalism) graduand who achieved the best overall results in radio broadcasting units.

BTQ Channel 7 Scholarship

Awarded to a Bachelor of Business student specialising in the communication field – advertising, film and television, journalism and public relations. Students must have completed second year full-time (or its equivalent), be undertaking a major in one of the communication areas and have enrolled to study third year full-time at this University.

Butterworths Book Prizes

Awarded:

- ❑ to the student who achieves the best academic result in the unit 'FNB115 Financial Institutions – Management'.
- ❑ to the student who achieves the best academic result in the unit 'AYB113 Accounting Theory and Applications'.
- ❑ to the student who achieves the best academic result in the unit 'ALB110 Business Law', and
- ❑ to the student who achieves the best academic result in the unit 'HRB131 Personnel Management and Industrial Relations'.

Margaret Cameron Memorial Award

Instituted by John Cameron and donated annually by the Brisbane Business and Professional Women's Club, and awarded to the female student, enrolled in the Bachelor of Business course, who takes the unit 'BSB102 Management and Organisations' and at the first attempt

obtains the highest commendable mark among the female students of the current academic year.

Castlemaine Perkins Bursary

Awarded to a second year Bachelor of Business (Marketing) student on the basis of academic merit and economic need.

Chartered Institute of Management Accountants Prize

Awarded to a student in the Bachelor of Business (Accountancy) degree who, at the first attempt, obtains the best results in 'FNB124 Management Accounting 2'.

Coca-Cola Bottlers Bursary

Awarded to a first year Bachelor of Business student on the basis of academic merit and economic need.

Commonwealth Bank Award

Awarded to the Bachelor of Business student who, at the first attempt, achieves the best academic result in the unit 'EPB140 Macroeconomics'.

Coopers and Lybrand Prize

Awarded:

- ☐ annually to the student enrolled in the Bachelor of Business majoring in Accountancy or Banking and Finance who attempts for the first time the unit 'AYB112 Company Accounting' and achieves the best academic result.
- ☐ annually to the student enrolled in the Bachelor of Business (Accountancy) course who attempts for the first time the unit 'AYB210 Auditing' and achieves the best academic result.

Country Press Award

Donated by the Queensland Country Press Association and awarded to the student who achieves the best academic result in the unit 'MJB124 Magazine and Feature Writing'.

Dean's Award for Excellence

Awarded to the students who have obtained the highest Grade Point Average and have excelled in their course of study. However, given the nature of the award, the Dean may under his/her discretion set a minimum standard of academic performance for receiving this award. The award is offered for the following courses: Associate Diploma of Business (Industrial Relations), Bachelor of Business (each major), Bachelor of Business (Honours) (each major), each Graduate Diploma course, each Master of Business course and the Master of Business Administration course.

Deloitte Ross Tohmatsu Prize

Awarded to the student enrolled in the Bachelor of Business undertaking the Accountancy major who, at the first attempt, achieves the best academic result in the unit 'AYB101 Computerised Accounting Systems'.

Douglas Heck Award

Awarded to the graduand in the Bachelor of Business, majoring in Accountancy, in each calendar year who passes the units 'FNB123 Managerial Accounting 1' and 'FNB124 Managerial Accounting 2' for the first time and obtains the highest average grade over the two units.

Duesburys Chartered Accountants Prizes

Awarded:

- ☐ to the student enrolled in the Bachelor of Business degree undertaking the Accountancy major, who takes the unit 'ALB122 Law of Business Associations' for the first time and gains the highest result at the semester examinations.

- to the Bachelor of Business student majoring in Accountancy or Banking and Finance, who takes the unit 'ALB120 Company Law and Practice' for the first time and achieves the best academic result.

EDP Auditors Association Prize

Awarded annually to the student who achieves the highest mark at the first attempt in the unit 'AYB212 Computer Security and Audit'.

Federation of Australian Radio Broadcasters Prize

Awarded to the student who achieves the highest grade in the radio segment of the unit 'MJB138 Radio and Television Journalism 2'.

Golden Casket Art Union Office Strategic Marketing Prize

Awarded annually to the third year student enrolled in the Bachelor of Business (Marketing), Bachelor of Business (Advertising) or Bachelor of Business (Public Relations) course who achieves the best academic result in the unit 'MKB155 Strategic Marketing'.

Merv Hoskins Memorial Prize

Donated by Mrs Hoskins and awarded to the Bachelor of Business student majoring in Accountancy or Banking and Finance who achieves, at the first attempt, the best academic result in the units 'AYB110 Accounting' and 'AYB111 Financial Accounting' in one academic year.

Karen Howitt Memorial Prize

Awarded to the final year student full-time or part-time enrolled in the Bachelor of Business (Public Relations) who reflects best through extra curricular activities the aims and objects of the course.

Human Resource Management Group Prize

Awarded to the Bachelor of Business student who, at the first attempt, achieves the best academic result in the unit 'HRB136 Strategic Human Resource Management'.

ICI Australian Ltd Prize

Awarded to the final year student enrolled in the Bachelor of Business (Marketing) who achieves the best overall performance.

Institute of Chartered Accountants, Australia Prize

Awarded to the full-time graduating Bachelor of Business (Accountancy) student who takes the units 'AYB113 Accounting Theory and Applications', 'AYB210 Auditing' and 'ALB132 Taxation Law', for the first time and obtains the highest aggregate pass in all three areas.

KPMG Peat Marwick Prizes

Awarded:

- to the full-time or part-time Bachelor of Business student majoring in Accountancy who, at the first attempt, takes the second year unit 'AYB210 Auditing' and achieves the best academic result.
- to the full-time or part-time Bachelor of Business student majoring in Accountancy or Banking and Finance who, at the first attempt, achieves the best academic result in the unit 'AYB111 Financial Accounting'.

Suzanne Lines Memorial Scholarship

Sponsored by the Australian Services Union and the Brisbane City Council. Eligible students include those intending to enrol full-time in the Bachelor of Business (Industrial Relations) course or full or part-time in the Graduate Diploma of Business (Industrial Relations).

MBA Medallion

Donated by the Faculty of Business, the MBA Medallion is an award made in recognition of academic excellence. To qualify for consideration for the award, a student must have demonstrated academic excellence throughout the entire Master of Business Administration program and have passed all units at a uniformly high standard.

The Media Monitors Queensland Prize

Awarded to the student who achieves the highest overall grade point average in the units 'MKB129 Publicity and Promotion – Print', 'MKB130 Publicity and Promotion – Electronic' and 'MKB117 Public Relations Campaigns'. This represents the student who holds the highest achievement in the area of media relations.

Wendy Miller Memorial Scholarship

Available to students enrolled full-time in a postgraduate course. Criteria include previous academic performance and demonstrated potential to make a positive contribution to his/her professional career. Some special consideration may be given to applicants who demonstrate financial need. Applicants should hold a Bachelor of Business degree.

MIM Holdings Ltd Prize

Awarded to the student of the Bachelor of Business (Journalism) course who obtains the best overall result in this course.

Malcolm Moore Medallion

Donated by the Australian Institute of Management in honour of a founder member of the Institute. This prize is awarded to the outstanding student who has performed at a consistently high standard while enrolled in the Bachelor of Business.

Neville Jeffress Advertising Prize

Awarded to a full-time student enrolled in the Bachelor of Business (Advertising) degree who achieves the best result in the unit 'MKB126 Advertising Management'.

PRIA 'Maurice Stitt' Award

Donated by the Public Relations Institute of Australia (Queensland), and awarded to the Bachelor of Business (Public Relations) graduand who has demonstrated academic distinction in the public relations units, and has epitomised the highest standards of the public relations profession.

Queensland Cement Limited (QCL) Bursary

Available to undergraduate students who have completed Semester 1 of their second last year of study in the Faculties of Built Environment and Engineering, Business or Science. Criteria include academic merit, career ambitions, communication skills and extra-curricula interests.

Queensland Investment Corporation Prize

(criteria currently under review)

Queensland Tourist and Travel Corporation Prize

Awarded to the student enrolled in the unit 'MKB129 Publicity and Promotion - Print' who submits the best design plan and program for promoting tourism in Queensland.

QUT Marketing Trust Fund Prize

Donated by the School of Marketing, Advertising and Public Relations and awarded to the Bachelor of Business student who achieves the best academic result in the unit 'MKB151 Marketing Research'.

Royal Institute of Public Administration, Australia (Queensland) Prizes

Awarded:

- ☐ to the Bachelor of Business (Public Administration) student who, at the first attempt,

achieves the best academic results in the units 'EPB124 Government' and 'EPB154 National Government' in any given year.

- to the Bachelor of Business (Public Administration) student who, at the first attempt, achieves the best academic results in the units 'EPB155 Policy and Program Evaluation' and 'EPB159 Public Policy' in any given year.
- to the graduating full-time or part-time student with the best overall performance in the Master of Business (Public Policy) course.

Society of Business Communicators Queensland Prize

Awarded to the graduating student of the Bachelor of Business degree who demonstrates the best overall performance in the units 'COB138 Written Communication: Theory and Practice', 'COB159 Research Concepts and Techniques' and 'COB106 Group Communication: Theory and Practice'. The recipient of the award should also be a student member of the Society of Business Communicators (Queensland) at or prior to the time of graduation.

J.F. Storr Prize

Donated by the Australian Society of Certified Practising Accountants and awarded at intervals to the student who, being a member of the Australian Society of Certified Practising Accountants, being resident in Queensland, and not being a full-time student, takes the unit 'FNN106 Managerial Accounting Honours' for the first time and achieves the best academic result in that unit.

Taxation Institute of Australia Prize

Awarded to the full-time or part-time Bachelor of Business student majoring in Accountancy or Banking and Finance who achieves the best academic result in the unit 'ALB132 Taxation Law'.

The Courier-Mail Prize for Journalism

Donated by Queensland Newspapers Pty Ltd and awarded to the graduating student with the best overall performance in the Bachelor of Business (Journalism) degree.

Sidney Webb Memorial Prize

Donated by the School of Management, Human Resources and Industrial Relations and awarded to the Bachelor of Business (Human Resource Management) or Bachelor of Business (Industrial Relations) student who, at the first attempt, achieves the best academic result in the unit 'HRB105 Human Resources and the Organisation'.

Faculty of Health

Allergan Hydron Prize

Awarded to the third year student who gains the highest mark in the unit 'OPB617 Contact Lens Studies 6'.

Allergan Optical Prize

Awarded to the third year student who gains the highest aggregate mark in the units 'OPB509 Optometry 5' and 'OPB609 Optometry 6'.

Australian Institute of Environmental Health Prize

Awarded to the student who obtains with distinction the highest grade point average in the Bachelor of Applied Science (Environmental Health).

Paddy Behan Memorial Prize

Donated by the Local Government Association of Queensland, and awarded to the Environmental Health student who gains the highest marks in the unit 'PUB622 Environmental Health Project'.

Centaur Memorial Fund for Nurses Award

Donated by the committee of the Centaur Memorial Fund for Nurses, and awarded to the student who gains the best grade point average in the final semester of the Bachelor of Nursing (Pre-registration) course.

Robert Chan Award for Clinical Dietetics

Awarded to the student who demonstrates outstanding application of clinical dietetics, based on performance in the unit 'PUP122 Practice in Clinical Dietetics'.

L.K. Claxton Award

Donated by the Australian Podiatry Association (Qld) and awarded to the student who shows the greatest proficiency in the first two semesters of the podiatry course.

Conrad and Gargett Pty Limited Prize

Awarded to the student enrolled in the Bachelor of Business (Health Administration) course who, at the first attempt, achieves the best overall result in the unit 'Health Services Planning'.

Dietitians Association of Australia – Queensland Branch Prize

Awarded to the student in the Graduate Diploma in Nutrition and Dietetics who is overall the top achiever taking into account the aggregate marks in the first two semesters of the course and performance in all areas of third semester as judged by lecturers in Nutrition and Dietetics.

Food Technology Association of Queensland Prize

Awarded to the graduand who obtains the highest aggregate marks in the Graduate Diploma in Nutrition and Dietetics.

A.M. Fraser Health Award

Awarded to a student in any course in health who demonstrates exceptional application, determination and enterprise in successfully completing his or her course, and selected by a panel of academic staff from nominations submitted by class members from each course in the School.

C.W. Graves Award for Orthotics

Donated by the Australian Podiatry Association (Queensland Branch), and awarded to the final year student who has shown the greatest proficiency in the area of Orthotics.

Harley Award

Donated by Harley Surgical Appliance Company Pty Ltd, and awarded to the final year student in the Bachelor of Applied Science (Podiatry) who gains the greatest distinction in the final year of the degree.

Home Economics Professional Associations Prizes

Two prizes donated by the Home Economics Institute of Australia (Queensland Division), the Queensland Association of Home Economics Teachers and the Home Economics Alumni, and awarded for excellence in home economics studies.

D.W. Johnson Prize

Donated by the Queensland Division of the Australian Institute of Environmental Health, and awarded to the graduand who obtains, with distinction, the highest aggregate of marks in the units 'PUB520 Environmental Health Management 1' and 'PUB620 Environmental Health Management 2'.

Dr Leo Kelly Award for Dermatology

Donated by the Australian Podiatry Association (Qld), and awarded to a third year Podiatry student for achievement in Dermatology.

Miltex Achievement Award

Donated by Ozthotics Pty Ltd, and awarded to the student in the Bachelor of Applied Science (Podiatry) who attains the highest rate of progression in clinical podiatry during the fifth and sixth semesters.

Overseas Clinical Placement Prize

Donated by Mr Patrick Gerry, and awarded for outstanding performance to a fourth year optometry student to enhance his or her clinical experience through overseas practice.

Duncan Palmer Memorial Prize

Donated jointly by the Australian College of Health Services Executives and the Minister for Health, and awarded to the student who gains the highest aggregate marks over an academic year in the units 'Health Management 1' and 'Health Management 2' of the Bachelor of Business – Health Administration.

Queensland Meals on Wheels Services Assoc Inc Prize

Awarded to the top student in the unit 'PUP123 Practice in Community Nutrition' in the Graduate Diploma in Nutrition and Dietetics selected by appropriate members of staff.

Queensland Medical Record Association Prize

Awarded to the graduand who obtains the highest mark at the first attempt in the unit 'PUB619 Health Information Management 4'.

Queenstate Awards

Donated by Queenstate Nursing Service Pty Ltd, and awarded to one student from the pre-registration and one student from the post-registration Bachelor of Nursing courses for the best overall results in the units 'NSB504 Professional Issues in Nursing 1', 'NSB505 Professional Issues in Nursing 2' and 'NSB601 Research in Nursing Practice'.

Remington Marshall Award

Awarded to the student in the final year of the Podiatry course who attains the highest rate of progression overall during the fifth and sixth semesters.

Royal Australian College of Medical Administrators Prize

Awarded to the student who obtains the highest pass at the first attempt for the unit 'LWS001 Medicine and the Law' in the Bachelor of Business (Health Administration).

Safety Institute of Australia Medal

Awarded for outstanding academic performance to one graduand of the Graduate Diploma in Occupational Health and Safety and one graduand of the Bachelor of Applied Science (Occupational Health and Safety).

Spotless Catering Services Prize

Awarded to the student enrolled in the Graduate Diploma in Nutrition and Dietetics who submits the best report in the unit 'PUP132 Practice in Food Service Management'.

Ken Ward Memorial Prize

Awarded to the student studying in the second year of the optometry course, with the highest aggregate marks in the units 'OPB312 Visual Science 3' and 'OPB412 Visual Science 4'.

Workplace Health and Safety Council Higher Education Award

Awarded to a student with the highest standard in the practical application of a workplace health and safety project in either the Bachelor of Applied Science (Occupational Health and Safety) or the Graduate Diploma in Occupational Health and Safety.

Faculty of Information Technology

Australian Computer Society Incorporated Prizes

Awarded annually to the most outstanding graduates in the Computing Science and Information Systems majors of the Bachelor of Information Technology.

Australian Library and Information Association, Queensland Branch Prize

Awarded to the part-time student who completes the Graduate Diploma in Library and Information Studies within the time period appropriate for normal progression and achieves the highest aggregate marks in the course.

BHA Computer Prize

Awarded annually to the Computer Science major of the Bachelor of Information Technology student with the most outstanding performance in the units 'ITB420 Computer Architecture' and 'ITB430 Concurrent Systems'.

BRS Online Service Prizes

Awarded to the two students who perform best in the unit 'ITP314 Online Information Services' within the Graduate Diploma in Library and Information Studies.

Data#3 Client Services Pty Ltd Prize

Awarded to the most outstanding student in the Information Systems major of the Bachelor of Information Technology.

ERACOM Data Security Prize

Awarded annually to the most outstanding student in the unit 'ITB543 Data Security'.

ERACOM Cryptology Prize

Awarded annually to the most outstanding student in the unit 'ITB548 Introduction to Cryptology'.

Learmonth & Burchett Management Systems (LBMS) Prize

Awarded annually to the most outstanding student in the unit 'ITB224 Systems Analysis & Design 2'.

Leprechaun Software Pty Ltd Prize

Awarded annually to the most outstanding student in the unit 'ITB520 Data Communications'.

State Library of Queensland Merit Award

Awarded to the full-time student who completes the Graduate Diploma in Library and Information Studies within the time period appropriate for normal progression and achieves the highest aggregate marks in the course.

Faculty of Law

OPEN PRIZES

Bar Association of Queensland Prize

An annual prize awarded to the graduand with the best performance in the units 'LWB 432 Evidence', and 'Civil Procedure' in conjunction with the elective 'Advanced Civil Procedure'.

K.G. Copp Memorial Prize

An annual prize to perpetuate the memory of the late Graham Copp, awarded by Corrs Chambers Westgarth to the graduating student with the highest average marks in the Law units studied for the LLB degrees.

Justin Geldard Memorial Prize

An annual prize to perpetuate the memory of the late Justin Geldard, awarded to the graduand eligible for the award of the Bachelor of Laws with the best pass degree.

Rod Grant Memorial Prize

An annual prize to perpetuate the memory of the late Rod Grant, awarded under a trust by Thynne and Macartney to the Legal Practice course student who produces the most practical/professional 'answer' to a legal problem set by an independent panel of practitioners.

Una Prentice Memorial Prize

An annual prize awarded under a trust by the Women Lawyers' Association of Queensland to the woman student with the highest average marks in Law units studied for the LLB degree.

Queensland Law Society Prize

An annual prize awarded to the graduand eligible for the award of Bachelor of Laws with the highest aggregate marks for the units 'LWB332 Property 2', 'LWB334 Corporate Law' (in conjunction with an advanced elective in Corporate Law), 'Drafting', 'Securities', 'Land Contracts', 'Introduction to Taxation Law' and 'Advanced Taxation Law'.

Charles Seymour Memorial Prize

An annual prize presented by Phillips Fox to perpetuate the memory of the late Charles Seymour, awarded to the student with the highest average marks in law units studied for the LLB degree.

CLOSED PRIZES

Central Queensland Law Association Bursary

An annual prize awarded to the student normally resident in the Central Queensland area with the best performance in the unit 'LWB131 Law in Context'.

Freehill Hollingdale and Page Prize

An annual prize awarded to the third year full-time combined Accountancy/Law student with the highest aggregate mark in Law units.

Gold Coast Law Association Bursaries

Civil Procedure: A bursary awarded each year to the student (who is not a full-time student and who is articulated to a solicitor in the Gold Coast area) with the best performance in the units 'LWB404 Civil Procedure' and 'Advanced Civil Procedure'.

Drafting, Securities and Land Contracts: A bursary awarded each year to the student (who is not a full-time student and who is articulated to a solicitor in the Gold Coast area) with the best performance in the units 'LWB361 Drafting', 'LWB462 Securities' and 'LWB312 Land Contracts'.

McCullough Robertson Prizes

- ☐ An annual prize awarded to the third year full-time LLB student with the highest aggregate mark in Law units.
- ☐ An annual prize awarded to the third year full-time LLB student with the second highest aggregate mark in Law units.
- ☐ An annual prize awarded to the fourth year full-time combined Accountancy/Law student with the highest aggregate mark in Law units.
- ☐ An annual prize awarded to the fourth year full-time combined Accountancy/Law student with the second highest aggregate mark in Law units.

UNIT PRIZES

Butterworths Pty Ltd Prizes

Administrative Law: An annual prize of a book voucher awarded to the student with the best performance in the units 'Administrative Law' and 'Advanced Administrative Law'.

BA Justice Studies: An annual prize of a book voucher awarded to the student with the best performance in the first year of the BA Justice Studies course.

Introduction to Public Law and Australian Federal Constitutional Law: An annual prize of a book voucher awarded to the student with the best performance in the units 'LWB231 Introduction to Public Law' and 'LWB235 Australian Federal Constitutional Law'.

Equity & Trusts: An annual prize of a book voucher awarded to the student with the best performance in the unit 'LWB234 Equity & Trusts'.

Property 1: An annual prize of a book voucher awarded to the student with the best performance in the unit 'LWB233 Property 1'.

C.A. Sciacca & Associates Prize

Industrial Law: An annual prize awarded to the student with the best performance in the unit 'LWB308 Industrial Law'.

Clarke and Kann Prizes

Drafting and Securities: An annual prize awarded to the student with the best performance in the units 'LWB361 Drafting' and 'LWB462 Securities'.

Contracts: An annual prize awarded to the student with the best performance in the unit 'LWB132 Contracts'.

Introduction to Taxation Law and Advanced Taxation Law: An annual prize awarded to the student with the best performance in the units 'Introduction to Taxation Law' and 'Advanced Taxation Law'.

Clewett Corser & Drummond Prize

Land Contracts: An annual prize awarded to the student with the best performance in the unit 'LWB312 Land Contracts'.

Computer Reporters (Qld) Pty Ltd Prize

Evidence: An annual prize awarded to the student who achieves the highest result in semester 1 in the unit 'LWB432 Evidence'.

Corrs Chambers Westgarth Prize

Corporate Law: An annual prize awarded to the student with the best performance in the unit 'LWB334 Corporate Law', in conjunction with an advanced elective in Corporate Law.

Ebsworth & Ebsworth Prize

Civil Procedure: An annual prize of the loose-leaf service 'Supreme Court Practice' by Ryan, Weld & Lee awarded to the student with the best performance in the units 'LWB404 Civil Procedure' and the elective 'Advanced Civil Procedure'.

Feez Ruthning Prize

Insolvency Law: An annual prize awarded to the student with the best performance in the unit 'LWB307 Insolvency Law'.

Gilshenan & Luton Prize

Criminal Law and Procedure: An annual prize awarded to the student with the best first attempt performance in the unit 'LWB232 Criminal Law and Procedure'.

Gordon Garland Prize

Family Law: An annual prize awarded to the student with the best performance in the unit 'LWB302 Family Law'.

Hill & Taylor Prizes

Drafting and Securities: An annual prize awarded to the student with the best performance in the units 'LWB361 Drafting' and 'LWB462 Securities'.

Consumer Protection: An annual prize awarded to the student with the best performance in the unit 'Consumer Protection'.

Law Book Company Prizes

Law in Context: An annual prize of a book voucher awarded to the student with the best performance in the unit 'LWB131 Law in Context'.

Professional Responsibility: An annual prize of a book voucher awarded to the student with the best performance in the unit 'LWB433 Professional Responsibility'.

Succession: An annual prize of a book voucher awarded to the student with the best performance in the unit 'LWB309 Succession'.

Michell Sillar Nicholsons Prize

Environmental Law: An annual prize awarded to the student with the best performance in the unit 'LWB485 Environmental Law'.

Queensland Anti-Discrimination and Equal Opportunity Law Prize

Discrimination and Equal Opportunity Law: An annual prize awarded to the student nearing the completion of their LLB degree with the best performance in the unit 'LWB313 Discrimination and Equal Opportunity Law'.

Queensland Health Department Prize

Medico-Legal Issues: An annual prize awarded to the student attaining the highest mark in the LLB elective unit 'LWB483 Medico-Legal Issues'.

Queensland Young Lawyers Prize

Research and Legal Reasoning: An annual prize awarded to the student with the best performance in the unit 'LWB134 Research and Legal Reasoning'.

Sly & Weigall Cannan & Peterson Prize

Torts: An annual prize awarded to the student with the best performance in the unit 'LWB133 Torts'.

United Nations Association of Australia (Queensland) Prize

Fundamentals of Public International Law: An annual prize and one year's complimentary membership of the Queensland Division of the Association awarded to the student with the best performance in the unit 'LWB406 Fundamentals of Public International Law'.

Faculty of Science

Advanced Technology Laboratories and Australian Institute of Radiography Prize

Awarded to the student who achieves the highest mark in Clinical Practice units in the first year of the Master of Applied Science – Medical Ultrasound major.

AGFA-Gevaert and Australian Institute of Radiography Prize

Awarded to the student obtaining the highest marks in the first year unit 'PHB275 Processing Technology' of the Bachelor of Applied Science (Medical Imaging Technology).

L.G. Amos Prize

Awarded each year to the graduand from the multidisciplinary Bachelor of Applied Science with major studies in Chemistry who, in the opinion of the Head of the School of Chemistry, obtains the best academic record over the length of the course.

Australian Association of Clinical Biochemists Prize

Donated by the Queensland Branch of the Association, and awarded to the student in the Bachelor of Applied Science (Medical Laboratory Science), who gains the highest aggregate marks with distinction in the units 'LSB520 Clinical Biochemistry 5' and 'LSB620 Clinical Biochemistry 6'.

Australian Institute of Medical Scientists Prize

Awarded to the graduand who obtains, with distinction, the highest aggregate marks over all of the clinical techniques units of the Associate Diploma in Clinical Techniques – Laboratory strand.

Australian Laboratory Services Pty Ltd Prize

Awarded to a full-time or part-time student of the Bachelor of Applied Science (Applied Chemistry) or the multidisciplinary Bachelor of Applied Science with major studies in Chemistry who has the best results in the final year Analytical Chemistry units.

Australian Organisation for Quality Award

Awarded annually to the most outstanding graduand, based on the highest grade point average over the duration of the course.

Australian Society for Parasitology Prize

Awarded to the student with the highest mark in the practical component of the unit 'LSB500 Microbiology 5'.

Australian Society of Cytology Prize

Awarded to the student gaining the highest mark in either of the cytology units 'Cytological Techniques 4' or 'LSB660 Histopathology 6'.

Alan Bailey Prize

Awarded to the student with the best overall performance in 'LSB502 Projects 1' and 'LSB602 Projects 2' in the final year of the Bachelor of Applied Science (Biology).

David Barry Memorial Prize

Awarded to the graduate with the best overall academic performance in the Biology major of the Associate Diploma in Applied Science.

Canberra – Packard Prize

Awarded to the graduand undertaking major studies in Physics who has obtained the best academic record in the final year of the multidisciplinary Bachelor of Applied Science.

Castlemaine Perkins Scholarship in Applied Chemistry

Offered annually for a period of one academic year to a student chosen from those who satisfactorily complete the fourth semester of the full-time program of the Bachelor of Applied Science (Applied Chemistry) or the Bachelor of Applied Science (Chemistry major).

Centre for Biological Population Management Prize

Awarded to the outstanding student in the final year of the Bachelor of Applied Science (Biology).

Centre for Medical and Health Physics Prize

Awarded to the student who, in the opinion of the Director of the Centre, is the best graduand of the Master of Applied Science – Medical Physics strand.

CRA Exploration Mapping Prize

Donated by CRA Exploration Pty Ltd, and awarded to the best project student in the Bachelor of Applied Science (Geology) for demonstrated ability in geological mapping.

George Edward Curphey Prize in Mathematics

Awarded to the student enrolled in the Bachelor of Applied Science (Mathematics) who, in the opinion of the Head of the School of Mathematics, is the most academically outstanding graduate of the year.

George Edward Curphey Prize in Mathematical Modelling

Awarded to the student enrolled in the Bachelor of Applied Science (Mathematics) who obtains the best performance of the year in the unit 'Mathematical Modelling', providing that the Head of School judges the student to be of sufficiently outstanding merit.

James Vincent Duhig Prize

Donated by the Australian Institute of Medical Scientists, and awarded to the student who gains the highest pass, with distinction, in the unit 'LSB560 Histopathology 5' in the Bachelor of Applied Science (Medical Laboratory Science).

Du Pont and Australian Institute of Radiography Award

Awarded to the student achieving the best academic record in the first year of the Bachelor of Applied Science (Medical Imaging Technology).

Hugo Flecker Memorial Prizes

Donated by the Royal Australasian College of Radiologists, Queensland Branch, and awarded to students in the third year of the Bachelor of Applied Science (Medical Imaging Technology) and the Bachelor of Applied Science (Radiotherapy Technology) respectively who obtain the best performance in the clinical practice units for that year.

GEC Medical and Australian Institute of Radiography Prize

Awarded to the student obtaining the highest marks in the first year unit 'Treatment Planning 1' of the Bachelor of Applied Science (Radiotherapy Technology).

Geological Society of Australia Medal

Awarded to the graduand who obtains the best results in the Bachelor of Applied Science (Geology).

Colin Graham Memorial Prize

Awarded from monies held in trust to the graduand of the Bachelor of Applied Science (Applied Chemistry) who, in the opinion of the Head of the School of Chemistry, has the best academic record over the length of the course.

Noel Middleton Gutteridge Memorial Prize

Donated by the Australian Institute of Medical Scientists, and awarded to the student who obtains, with distinction, the highest pass over the ninth to twelfth semesters of the part-time course leading to the Bachelor of Applied Science (Medical Laboratory Science).

Hanimex and Australian Institute of Radiography Prize

Awarded to the student achieving the best academic record in the third year of the Bachelor of Applied Science (Medical Imaging Technology).

Incitec Ltd Prize

Awarded annually to a full-time or part-time student of the Bachelor of Applied Science in Applied Chemistry or the multidisciplinary Bachelor of Applied Science with major studies in Chemistry who, in the opinion of the Head of School, shows at the first attempt the greatest overall proficiency in Year 3, semesters 1 and 2 (or the part-time equivalent) of the above courses. If no student is considered suitable in a given year, no prize will be awarded.

Michael & Elizabeth Innis Prize

Awarded to the student who gains the highest pass with distinction in the units 'LSB550 Haematology 5' and 'LSB650 Haematology 6' in the Bachelor of Applied Science (Medical Laboratory Science).

Kodak Prize

Awarded to the student in the Bachelor of Applied Science (Medical Imaging Technology) who obtains the best academic record (as determined from awarded grades) for the course completed in that year.

I.M. & M.J. Mackerras Prize

Donated by the Australian Institute of Medical Scientists, and awarded to the student who gains the highest pass with distinction in the unit area of 'Medical Parasitology' within the unit 'LSB500 Microbiology 5'.

Mallinckrodt and Australian Institute of Radiography Award

Awarded to the student achieving the best academic record in the second year of the Bachelor of Applied Science (Radiotherapy Technology).

Meadow Lea Foods – J.L. Forsyth Memorial Prize

Donated by Meadow Lea Foods, and awarded to the student who has shown the greatest proficiency in the units of the fifth and sixth years of the part-time course for the Bachelor of Applied Science (Applied Chemistry).

Medical Applications and Australian Institute of Radiography Prize

Awarded to the student achieving the best academic record in the third year of the Bachelor of Applied Science (Radiotherapy Technology).

MIM Exploration Honours Bursary in Geology

Awarded to a student in the Bachelor of Applied Science (Honours) studying a Geology major. Criteria includes level of academic achievement.

MIM Holdings Limited Prizes

Awarded:

- ☐ to the student who obtains the highest mark in the unit 'ESB592 Field Excursions' in the Bachelor of Applied Science (Geology), and
- ☐ to the student who obtains the highest combined mark in the units 'MAB187 Engineering Mathematics 1A' and 'MAB188 Engineering Mathematics 1B'.

Mining and Metallurgical Bursaries Fund Prizes

Donated by the Australasian Institute of Mining and Metallurgy, and awarded to the students of the Bachelor of Applied Science (Geology) who show the most outstanding potential in completing the course.

PESA (Qld) Geology Award

Awarded to the student who obtains the highest results for the third year Geology units relating to the petroleum industry.

Physics Staff Prize

Awarded to the student completing the second year of the multidisciplinary Bachelor of Applied Science and undertaking major studies in Physics who obtains the best academic record for that year.

Prospectors Supplies Pty Ltd Prize

Awarded to the first year student of the Bachelor of Applied Science (Geology) who obtains the highest aggregate marks for the year.

Queensland Cement Limited (QCL) Bursary

Available to undergraduate students who have completed semester one of their second last year of study in the faculties of Science, Business or Built Environment and Engineering. Criteria include academic merit, career ambitions, communication skills and extra-curricula interests.

Royal Australian Chemical Institute Queensland Branch Prize

Awarded to the student showing, at the first attempt, the greatest proficiency in the second year of the full-time course (or its part-time equivalent) leading either to the Bachelor of Applied Science (Applied Chemistry) or to the multidisciplinary Bachelor of Applied Science with major studies in Chemistry.

Royal College of Pathologists of Australasia (Queensland Committee) Prize

Awarded to the student who obtains the highest pass in the units 'LSB500 Microbiology 5' and 'LSB600 Clinical Bacteriology 6' in the Bachelor of Applied Science (Medical Laboratory Science).

J.R. Saal Prize

Donated by the Australian Institute of Medical Scientists, and awarded to the full-time student graduating in minimum time who obtains, with distinction, the highest aggregate marks over all of the clinical units of the Bachelor of Applied Science (Medical Laboratory Science).

Santos Petroleum Management Honours Bursary in Geology

Awarded to a student in the Bachelor of Applied Science (Honours) studying a Geology major. Awarded on the basis of academic performance and motivation.

Sea World Prize

Awarded to the student with the highest aggregate marks in the final year of the Bachelor of Applied Science (Biology).

Schering and Australian Institute of Radiography Award

Awarded to the student achieving the best academic record in the second year of the Bachelor of Applied Science (Medical Imaging Technology).

Charles O. Schloman Memorial Prize

Donated by Astra Panels Pty Ltd, and awarded to the student undertaking the Bachelor of Applied Science (Applied Chemistry) or the Chemistry major of the multidisciplinary Bachelor of Applied Science who, in the opinion of the Head of School, shows at the first attempt the greatest overall proficiency in the second year Organic Chemistry units of the full-time course (or its part-time equivalent). If no student is considered suitable for the award in a given year, no prize will be awarded.

Charles O. Schloman Memorial Prize (Physical Chemistry)

Awarded annually to a full-time or part-time student undertaking the Bachelor of Applied Science (Applied Chemistry) or the Chemistry major of the multidisciplinary Bachelor of Applied Science who, in the opinion of the Head of School, shows at the first attempt the greatest proficiency in the second year Physical Chemistry units of the full-time course (or its part-time equivalent). If no student is considered suitable for the award in a given year, no prize will be awarded.

School of Mathematics Staff Prizes

Awarded to the students enrolled in the Bachelor of Applied Science in Mathematics who, in the opinion of the Head of the School of Mathematics, obtains the best results in the mathematics component of each year of the full-time program or its equivalent and is in the Honours year.

The Thea William and Jane Brophy Prize

Awarded to the student in the Anaesthetic Technician strand of the Associate Diploma in Clinical Techniques who achieves the highest results in the clinical practice units and is judged to be of sufficiently outstanding merit.

Toshiba and Australian Institute of Radiography Ultrasound Prize

Awarded to the student who achieves the best academic record in the first year of the Master of Applied Science – Medical Ultrasound major.

Velseis Geophysics Prize

Awarded to the graduand with the highest aggregate marks in the geophysics units of the Bachelor of Applied Science (Geology).

Byron Watkins Prize

Sponsored by the Industrial and Applied Chemistry Past Students' Association in honour of Byron Watkins, foundation Chief Instructor of the Chemistry Department of the former Central Technical College, and awarded annually to the graduand in the Chemistry major of the Associate Diploma in Applied Science who shows the highest level of achievement during the course.

Winthrop and Australian Institute of Radiography Travelling Fellowship

Awarded to the graduand of the Bachelor of Applied Science (Medical Imaging Technology) or (Radiotherapy Technology) course who achieves the best academic record over the three-year course.

STUDENT GUILD

The Guild is governed by Guild Council which consists of the Executive (President, General Secretary, Education Director, Women's Services Director, Welfare Services Director, Recreation Director and five Campus Directors), campus representatives, and specialist representatives (for part-time and external students, Aboriginal and Torres Strait Islander students, overseas students and postgraduate students.)

Members of the Guild Council are elected at the annual general election and all students are eligible to stand for positions at the election. Students will also be able to nominate and vote for campus coordinator positions to help organise activities and services on campuses.

The QUT Student Guild is owned and operated by and for students.

Student Guild Services

The QUT Student Guild is a service organisation operated for the benefit of the student body. The Guild exists to make a student's time at University easier and more enjoyable. QUT staff and members of the public are also encouraged to join the Guild as associate members.

Campus Student Information Centres

The Guild operates Student Information Centres on all campuses – Carseldine, Gardens Point, Kedron Park and Kelvin Grove and at the Sunshine Coast Centre – providing access to a wide variety of services, facilities, activities, equipment and information.

A range of equipment for use by students is available in most centres, including photocopiers, for digraph machines, thermal copiers and typewriters.

Other services provided through these offices include stationery and stamp sales, Queensland Teachers Credit Union Agencies (KG,KP,CA), photo developing (KG,KP,CA), laminating services and sales of cassette tapes, computer disks, T-shirts and sweatshirts.

For more information about any of the Guild's services or facilities, contact the campus Student Information Centres:

Gardens Point	– (07) 864 1680
Kedron Park	– (07) 864 4016
Kelvin Grove	– (07) 864 3704
Carseldine	– (07) 864 4714

The main activities of the Guild are outlined below.

Education

Academic Appeals Assistance: A member of staff visits all campuses to assist students appealing against academic grades or academic rulings (eg exclusion) of the University. Phone: (07) 864 4033.

Course Evaluation Handbook: The Guild conducts surveys of students each year to determine their opinion on matters relating to their courses, lecturers and general standard of education received. A handbook containing results of surveys and other general education information is published each year.

External Student Services: The Guild will pay for the cost of postage of QUT Bookshop

purchases on behalf of external students. The Guild also has a 008 telephone line available to external students for queries regarding Guild services, and assistance relating to their studies. This line is available Monday to Friday from 8.30 am to 5.00 pm. Phone: 008 773 219.

Representation: The Guild sends representatives to express students' views to many University committees, including the University Academic Board.

Welfare Services

Accommodation services: The Guild can help students to find suitable accommodation including hostels, flats, private board and share houses. Accommodation noticeboards are maintained on each campus.

Austudy advice: Specialist advice from a member of staff is available on how to apply for and appeal against a decision on AUSTUDY eligibility. Phone : (07) 864 4009.

Child Care Centres: The Guild operates a child care centre at Gardens Point campus that caters for 25 children per day Monday to Friday. Fees are reasonable and government subsidies and fee relief are available. The Guild also operates a child care centre at Carseldine campus, telephone (07) 864 4800. Further information about child care services is available from the Welfare Services Director. Phone: (07) 864 4006.

Legal Services: Members of the Guild can receive assistance from practicing lawyers by making appointments at campus Student Information Centres. This service is free to members.

Part-time Employment: A member of staff is available to assist students seeking part-time, casual or vacation employment whilst they are studying. Students can also receive advice about resume writing and interview techniques. A range of job opportunities are displayed on noticeboards at campus Student Information Centres where further enquires and registration for work can be made. Phone: (07) 864 4007

Student Plan Accident Insurance: All full-time and part-time students of the University are covered by accident insurance, a comprehensive policy providing medical, hospital and other benefits to students in the event of most types of accident. Further information is available from a campus Student Information Centre or Insurance Officer.

Sport, Recreation and Activities

Clubs and societies: The Guild provides financial and organisational assistance to clubs and societies which meet the requirements to become affiliated with the Guild. Clubs and societies may be educational, cultural, social political, religious, sporting or recreational.

Games rooms: All campuses have games rooms containing facilities ranging from pinball machines and darts equipment to table tennis and pool tables.

Health and Fitness Centres/ Gymnasiums: The Guild operates health and fitness centres at Kelvin Grove campus and Gardens Point campus offering assessments, weights, aerobics, squash courts (Kelvin Grove), swimming pool; (Kedron Park) and sports medicine clinics. Areas are available for other recreation activities. Phone: (07) 864 3710 (Kelvin Grove), 864 1685 (Gardens Point).

Physiotherapy Centres: The Guild contracts with a physiotherapy clinic to provide a physiotherapy service at Kelvin Grove campus and Gardens Point campus. Fees are reasonable. Phone: (07) 864 3711 (Kelvin Grove), 864 1687 (Gardens Point).

Recreation Courses: A range of recreation courses are offered by the Guild. These include exercise courses, ski trips, foreign language classes, martial arts, massage, health and relaxation, golf, self-defence, abseiling, scuba diving, parachuting and special trips such as to the Birdsville Races. A recreation handbook is available during Orientation week, at a Sports and Recreation Centres or the Student Information Centre on the Carseldine campus.

Recreation Equipment: A limited equipment pool is available for use by students and can be obtained from the Guild office or Gymnasium.

Social and Cultural Activities: A variety of social and cultural events and activities are organised throughout the year. These include balls, cabarets, bands, barbecues, films, theatre events and theme weeks. They may be run on each campus or as cross-campus activities.

Sporting Competitions: The Guild organises sporting competitions at all levels – lunchtime competition and recreational games, QUT inter-campus competition, regional, state and national inter-university championships.

Sports Centre: The QUT Sports Centre is located at Gardens Point campus and is open 7 days a week. It contains a 25 metre indoor heated swimming pool, three squash courts, a sundeck and kiosk. Activities include rebound volleyball, table tennis, aqua aerobics, training sessions, learn-to-swim classes and general fitness and relaxation swimming. Phone: (07) 864 1688.

Weights Rooms: Kedron Park and Carseldine campuses have weight training rooms available for use by students. Contact a Student Information Centre for further information.

For more information about sport, recreation and activities contact the campus Recreation Officers:

Gardens Point	– (07) 864 1685
Kelvin Grove	– (07) 864 3710
Kedron Park	– (07) 864 4019
Carseldine/Sunshine Coast	– (07) 8644716

Media and Publications

Publications: The Guild produces a range of free publications throughout the year, including a wallplanner, newsletters, clubs and societies handbook, the Annual Report and various brochures on services and activities.

Student Newspaper: The Guild regularly publishes a free community newspaper called UTOPIA to which students can contribute. It provides general information and also acts as a forum for a wide range of topics of student interest. Editors of the paper are elected each year and all students are eligible to stand for election. Phone: (07) 864 4012.

Women's Services

Campaigns and Information: The women's area conducts a variety of campaigns throughout the year to highlight issues relating to women. These include sexual harassment, discrimination and women's health etc.

Resource Area: A Women's Resource Room is located at Gardens Point and provides space for quiet study and coffee and tea making facilities. The Guild employs two Women's Officers based at Kelvin Grove who assist with information, complaints and problems, and work to educate the campus community about problems faced by women.

Special Events and Entertainment: A number of special women's events occur each year, eg., International Women's Day and Blue Stocking Week. These often include a range of entertainment such as films, bands, theatre, dances and art exhibitions.

Women's Library: A wide range of books and publications are available for loan from the Women's Resource Library at the Kelvin Grove Campus.

Workshops and Seminars: The Women's area conducts workshops and seminars on a range of topics that may be specifically relevant to women or aimed at everyone. Workshop topics include subjects such as health, stress management, relaxation, women and sport, meeting procedure, assertiveness training, self defence, and women and careers.

For further information please contact the Women's Services Officers at:

Gardens Point	– (07) 864 1682
Kelvin Grove	– (07) 864 3709
	– (07) 864 3707
	– (07) 864 3924
Carseldine	– (07) 864 4716
Carseldine Women's Room	– (07) 864 4775

Postgraduate Students

In recent years the Student Guild has initiated a number of services for postgraduate students. These include the establishment of the Postgraduate Students Association, the publication of the postgraduate handbook and the appointment of a Specialist Research Officer, who deals primarily with Postgraduate issues. This year the Guild has a firm commitment to continuing this representation and working for postgraduate students.

For further information please contact the Specialist Research Officer. Phone: (07) 864 4005. The toll free 008 773 219 line is available during business hours for external students.

Other Services

Campus Shop: The Campus Shop at Gardens Point campus sells a large range of calculators, sportswear, shoes, chemist lines, cigarettes and other goods, and provides photo developing and dry cleaning. Phone: (07) 864 1681.

'Degrees Cafe': 'Degrees' is a licensed cafe run by the Guild at Gardens Point campus. 'Degrees' offers a wide range of reasonably priced meals and snacks and great espresso coffee. Phone: (07) 864 1236.

Graduation Gown Hire and Sale: The Guild hires gowns, hoods and mortarboards for graduation ceremonies and photographs.

Hire fees	– gowns \$17.00
	– hoods \$8.00
	– mortarboards \$5.00

Academic regalia is also available for sale. Phone: (07) 274 1473

Student Lounges: Student Lounge facilities are provided by the Guild at Kelvin Grove, Kedron Park and Carseldine campus. These provide an area to relax or socialise. Drink vending machines are available in or near the lounges.

ART COLLECTION

Queensland University of Technology houses a major collection of almost 1200 Australian and international works of art, comprising paintings, sculptures, decorative arts and works on paper. These holdings represent one of the largest public art collections in Queensland.

Established in 1945, the collection embraces both historical and contemporary works, spanning a period of over 140 years. The greatest strengths lie in the extensive holdings of Queensland art from the 1940s onwards and the outstanding collection of contemporary Australian art post 1970, chiefly paintings, prints and ceramics. The small but significant group of works by Australian artists (Elioth Gruner, Frank Hinder, Margaret Preston, Grace Cossington Smith and so on) working predominantly in the first half of the twentieth century forms an interesting complement to contemporary holdings.

A number of important contemporary Australian artists are represented in the collection by major examples of their work. They include Ian Fairweather, Rosalie Gascoigne, Richard Larter, Keith Looby, John Olsen and Imants Tillers. The collection also contains substantial holdings by several eminent individual practitioners such as Alun Leach-Jones, Carl McConnell, Gwyn Hanssen Pigott and William Robinson.

The rapidly expanding collection of Australian prints comprises works by artists who have been actively involved in the graphic arts over the past two decades including George Baldessin, Hertha Kluge-Pott, Bea Maddock, Mike Parr, Sally Robinson and Fred Williams. These holdings have been recently consolidated through the acquisition of a large body of prints by Aboriginal and Torres Strait Islander artists, as well as by the purchase of works incorporating new technology such as faxes, photocopies and laser prints.

Contemporary Australian ceramics have been acquired consistently since the early 1970s. Highlights include major sculptural pieces by Olive Bishop, Margaret Dodd and Lorraine Jenyns, and important functional wares by Stephen Benwell, Greg Daly, Milton Moon, Jenny Orchard and Sandra Taylor. Recent acquisitions include works by a younger generation of ceramic artists such as Jo Crawford, Merran Esson, Debra Halpern, Jerry Wedd and Jo Williams.

Other new acquisitions reflect the high priority and commitment given by QUT to the work of local emerging practitioners, particularly those who have graduated from the University's Academy of the Arts and begun to establish themselves as professional artists. The recent purchase of representative works by Stephen Brash, Don Heron, Stephen Nothling and Anne Wallace exemplifies the significance and depth of this commitment.

In addition to its holdings of Australian art, QUT possesses a distinguished group of twentieth century American and European works by artists of the calibre of Georges Braque, Alexander Calder, Mary Cassatt, Henry Moore, William Scott, Victor Vasarely and Paul Wunderlich, as well as some outstanding nineteenth century Japanese woodblock prints.

The collection is displayed in various designated spaces at QUT's four Brisbane campuses. Policy and procedures relating to its development are determined by the Art Collection Committee, comprising senior representatives of the University and external members.

The collection is administered by the University Curator, Stephen Rainbird and Assistant Curator, Tracy Muche. For further information telephone (07) 864 3240.

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Student Rules

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STUDENT RULES, POLICIES AND PROCEDURES

The following rules are based on those existing prior to 1991 at the Queensland University of Technology and the Brisbane College of Advanced Education. These rules have been formulated to provide the least disadvantage to continuing students. If a student considers he or she has been disadvantaged by a change in the rules, the student should make the case in writing to the Registrar.

In these rules, reference to the Registrar includes reference to any officer of the University authorised by the Registrar to carry into effect any or all of the powers, duties and responsibilities included in these rules.

For information on the University's admission rules and procedures please refer to the publication *Admission Procedures 1996* which is available from QUT's Admissions Section.

The University's Manual of Policy and Procedures (MOPP) contains detailed policy/procedural statements on such matters as courses and awards, including awards with honours, awards with distinction, and the credit point system; international student exchange programs; assessment of students, including objectives and functions of assessment, organisation of examinations and assessment of results; awards, scholarships and prizes; theses, dissertations and project reports; graduation; confidentiality of student records; students' obligations and expectations, including student consultation, feedback on progressive assessment and results; student discipline; and student grievances.

1. Enrolment

1.1 Failure to enrol following admission

If a commencing student fails to enrol for the semester by the date specified in the University's letter of offer, the enrolment lapses and the offer of admission is withdrawn.

1.2 Enrolment to conform with offer

Commencing students are required to enrol as specified in the University's letter of offer as regards to course and, where applicable, major, attendance mode or campus.

1.3 Enrolment (commencing students)

FORM:	Enrolment Form for Commencing Students.
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.

A commencing student is enrolled on completion of all of the following:

- ☐ application for admission
- ☐ acceptance of the offer of a quota place in terms of the conditions prescribed
- ☐ submission of a completed enrolment form and its acceptance by the University
- ☐ payment of prescribed fees (unless the Registrar has granted an extension of time for such payment and has accepted the enrolment subject to payment at a later prescribed date)
- ☐ submission of a completed HECS payment options form, and

- completion of any other required procedures.

1.4 Re-enrolment (continuing students)

FORM:	Enrolment Form for Continuing Students.
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.

A continuing student is required to lodge an enrolment form each calendar year. A continuing student is enrolled on completion of the following:

- submission of a completed enrolment form and its acceptance by the University
- payment of prescribed fees (unless the Registrar has granted an extension of time for such payment and has accepted the enrolment subject to payment at a later prescribed date), and
- completion of any other required procedures, provided that the student is not subject to exclusion, termination of enrolment or has been refused the right to re-enrol under Rule 2.

Students are required to re-enrol by the published closing date. An enrolment form lodged after the closing date may be accepted at the discretion of the Registrar on payment of a late fee. Students who fail to re-enrol will be subject to cancellation of enrolment.

1.5 Personal information

Students are obliged to provide personal information, including their full name, for record keeping purposes and for statistical purposes as required by the Commonwealth Government.

Students who propose to change their name from that recorded upon admission to the University should submit their request in writing together with appropriate supporting documentation, such as a birth certificate or marriage certificate.

Students should note that the name reported for graduation purposes shall be the one recorded by the University at the time of the official release of results for the last semester of enrolment.

1.6 Mailing address

FORM:	Change to Personal Details Form (Form D).
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.

Students are required to provide reliable address details for correspondence with the University and must promptly notify the University of any change of address. Failure to receive a notice because of change of address is not a sufficient excuse for missing a deadline or an obligation.

1.6.1 Permanent home address

For correspondence with students during the end-of-year vacation period, when students are on leave of absence, after cancellation of course, or after course completion.

1.6.2 Semester address

For correspondence with currently enrolled students during the academic year, including the short mid-year recess. A student's semester address may be the same as or different from their permanent home address.

1.7 Confirmation of enrolment

Each semester, the University provides students with a confirmation form outlining their current enrolment program. It is the student's responsibility to inform the University of any discrepancy in the form in accordance with the instructions given.

Failure to correct an inaccurate record may have serious financial, administrative and academic consequences.

1.8 Nomination of enrolment program

1.8.1 Maximum and minimum semester loads

Except with the approval of the Dean of Faculty, a full-time student shall not enrol for a program which exceeds the standard credit points for a full-time semester in the course, or the number of credit points allocated to the semester of the course from which the majority of units has been selected, whichever is the greater.

Except with the approval of the Dean of Faculty, a part-time student shall enrol in a program with credit points totalling at least 35 per cent of the standard credit points for the full-time course.

1.8.2 Prerequisites, co-requisites and incompatible units of study

A prerequisite unit is one which must be passed before the student proceeds to a further unit which has the prerequisite so specified. A co-requisite is one which, if not previously passed, must be studied concurrently with another unit with which it is a co-requisite.

A Head of School may permit a student to undertake a unit without the student having passed the specified prerequisites if the Head of School is satisfied that the student has the appropriate background knowledge necessary for the unit.

Enrolment in a unit of study is not permitted if a student has successfully completed any unit listed as 'incompatible with' the proposed unit. (See unit synopsis).

1.8.3 Right to amend enrolment programs

A course coordinator may amend a student's enrolment program for any of the following reasons:

- ☐ credit points exceeding the maximum allowed
- ☐ credit points less than the minimum allowed
- ☐ timetable incompatibility
- ☐ non-compliance with course rules.

1.9 Change to enrolment program

Students are responsible for advising the Registrar of changes to enrolment details. Each semester they may request one free change to their enrolment by returning by the due date their completed Enrolment Statement. A change of enrolment submitted on other than the completed Enrolment Statement will be processed only upon payment of a fee. Students may request a waiver of the fee if circumstances beyond their control require a change to enrolment. The Enrolments Officer will determine all requests for waiver of the fee.

1.9.1 Addition and substitution of units

FORM:	Enrolment Statement (Form E)
SOURCE:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters
SUBMIT TO:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters

Students may add units to their existing enrolment program up to a published date at the end of the second week of semester.

Requests received after the published date must bear the written support of the unit coordinator and proof of payment of a late fee.

Requests are only approved if all of the following conditions are met:

- ☐ the unit coordinator has confirmed that the student may enrol in the unit after the published date
- ☐ the student has demonstrated the existence of exceptional circumstances as determined by the Registrar or relevant course coordinator
- ☐ the student has provided proof of payment of the late fee.

Requests submitted without written support of the unit coordinator and proof of payment of the late fee will be returned to the student unprocessed.

1.9.2 Cancellation of units

FORM:	Enrolment Statement (Form E) or Change to Enrolment Form (Form C)
SOURCE:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters
SUBMIT TO:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters

Students may cancel their enrolment in units except where the cancellation results in an enrolment program which has fewer credit points than the minimum allowable, or represents a departure from a program prescribed for a student on probation. Cancellation of units where no addition of units occurs will not incur an administrative charge.

For single and multi-semester length units undertaken in the first or second semesters, the following results are recorded:

- (i) **Cancellation in the first two weeks of the semester:** The units are deleted from the student's record.
- (ii) **Cancellation from the third week of the semester to March 31 in the case of first semester, or August 31 in the case of second semester:** A status of 'Withdrawn' is recorded against the units concerned. A 'Withdrawn' unit is not included in the calculation of the student's GPA.
- (iii) **Cancellation after March 31 or August 31 and before the end of the semester:** A result of 'Withdrawn – Failure' is awarded unless the examiner awards a passing grade on the basis of the assessment undertaken by the student prior to cancellation.

The Registrar, on advice from the Faculty, may waive the 'fail' result arising from late cancellation when satisfied that the cancellation was necessitated by medical, compassionate or other exceptional circumstances.

In the case of multi-semester units, provisions (i) and (ii) above apply only to the initial semester of the unit. For cancellation at any time in the second or subsequent semester of a multi-semester unit a result of 'Withdrawn – Failure' is awarded.

For units undertaken in the Summer School period, the following results are recorded:

- (i) **Cancellation in the first two weeks of the Summer School:** The units are deleted from the student's record.
- (ii) **Cancellation after the second week of the Summer School:** A result of

'Withdrawn – Failure' is awarded unless the cancellation was caused by medical, compassionate or exceptional circumstances.

For units undertaken in the Intensive Study Mode, the following results are recorded:

- (i) **Cancellation prior to the commencement of teaching:** The units are deleted from the student's record.
- (ii) **Cancellation in the first two weeks of the Intensive Study Mode:** A result of 'Withdrawn' is recorded against the units concerned. A 'Withdrawn' unit is not included in the calculation of the student's GPA.
- (iii) **Cancellation after the second week of the Intensive Study Mode:** A result of 'Withdrawn-Failure' is awarded unless the cancellation was necessitated by medical, compassionate or exceptional circumstances.

1.10 Change of course

Offers of admission to commencing students specify the particular course and, where applicable, major for which the offer is made. Students are required to enrol as specified (see Rule 1.3) and complete at least the first semester accordingly.

1.10.1 Transfer to another course offered by the same Faculty

FORM:	Intra-Faculty Changes Form (Form I).
SOURCE:	QUT Admissions Office, Kelvin Grove campus. Campus Enquiry Counters.
SUBMIT TO:	QUT Admissions Office, Kelvin Grove campus Campus Enquiry Counters.

Students who wish to transfer to another course offered by the same Faculty may apply to do so using the Intra-Faculty Changes Form (Form I). Applications will be determined by Faculties and will be subject to the following prescriptions:

- (i) if the application is made after completion of the first semester but before completion of the first year, the student must have met the minimum entry level which applied for the proposed new course or major in the most recent admission period
- (ii) if the application is made after completion of the first year, the student's eligibility will be assessed according to criteria established by Deans of Faculties and published before the close of applications each year.

1.10.2 Transfer to a course offered by a different Faculty

Students who wish to transfer to a course offered by a different Faculty should apply as follows:

- ☐ in the case of an undergraduate course, to QTAC, using Form B
- ☐ in the case of a postgraduate course, to the QUT Admissions Office, using Form P.

1.11 Change of major

FORM:	Enrolment Statement (Form E) or Change to Enrolment Form (Form CR).
SOURCE:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters.

Students who wish to transfer to another major within the same course may apply to do so using the forms listed above., Applications will be determined by Faculties and will be subject to the following prescriptions:

- (i) if the application is made after completion of the first semester but before completion of the first year, the student must have met the minimum entry level which applied for the proposed new major in the most recent admission period
- (ii) If the application is made after completion of the first year, the student's eligibility will be assessed according to criteria established by Deans of Faculties and published before the close of applications each year.

1.12 Change of attendance mode

FORM:	Enrolment Statement (Form E) or Change to Enrolment Form (Form C).
SOURCE:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus Campus Enquiry Counters.

1.12.1 Definitions of attendance/study modes

- ☐ **Full-time**
Full-time students are students who are enrolled for the semester in 75 per cent or more of the standard credit points for a full-time semester of the course.
- ☐ **Part-time**
Part-time students are students who are enrolled for the semester in less than 75 per cent of the standard credit points for a full-time semester of the course.
- ☐ **Internal**
Internal students are those who undertake all units of study for which they are enrolled through attendance at the University on a regular basis. Students who undertake a higher degree course for which regular attendance is not required, but attend the University on an agreed schedule for the purpose of supervision and/or instruction are also classified as internal students.
- ☐ **Multi-modal**
Multi-modal students are those who undertake at least one unit of study on an internal mode of attendance and at least one unit of study on an external mode of attendance.
- ☐ **External**
Students are classified as external when all units of study for which they are enrolled involve special arrangements whereby teaching materials, assignments, etc are delivered to the student, and any associated attendance at the University is of an incidental, irregular, special or voluntary nature.

1.12.2 Procedure

Offers of admission to commencing students will specify the attendance mode for which the offer is made. Students are required to enrol as specified (see Rule 1.3) and complete at least the first semester accordingly.

Students who wish to change to another attendance mode may apply to do so using the Enrolment Statement (Form E) or Change to Enrolment Form (Form C). Applications will be determined by Faculties.

1.13 Transfer to another campus

Where a course is offered on more than one campus, students will be allocated to one of the campuses and will be required to attend that campus for at least the first semester.

Students who wish to change to another campus may apply to do so using the Enrolment Statement (Form E) or Change to Enrolment Form (Form C). Applications will be determined by Faculties.

1.14 Exceptions

In special circumstances Deans of Faculties may approve exceptions to policies set out above in 1.10 – 1.13 as under:

- the requirement that commencing students enrol and complete at least the first semester of their course as specified in their offer of admission; that is, no change to course, major, attendance mode or campus before the end of the first semester of the course
- the requirement in 1.10.1 (i) and 1.11 (i) that students who wish to transfer to another course or major within the same Faculty must have met the minimum entry level which applied for the proposed new course or major in the most recent admission round.

1.15 Concurrent enrolment

Concurrent enrolment in two or more QUT courses is permitted except where the total study load in a semester exceeds 48 credit points, in which case the approval of the course coordinator of each course is required.

1.16 Leave of absence

FORM:	Change to Enrolment Form (Form C).
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.

Students who find that their circumstances necessitate a period of absence from their course may request leave of absence.

Normally leave of absence will not be granted in the first semester of the first year of study except where the absence is necessitated by medical, compassionate or other exceptional circumstances as determined by the Registrar.

Following the first semester of the first year of study for students in undergraduate courses, except where specified in the course rules, approval of leave of absence for periods up to one year is automatic. For periods in excess of one year or for students in postgraduate courses, leave of absence is subject to approval by the relevant Dean of Faculty.

In cases where leave of absence is granted after 31 March for first semester or 31 August for second semester, 'Withdrawn – Failure' results will be awarded except where the Registrar, on advice from the Faculty, is satisfied that the period of leave was necessitated by medical, compassionate or other exceptional circumstances.

At the end of the nominated period, students are sent a form with which to re-enrol. If they do not re-enrol, their leave of absence is terminated and their enrolment status is altered to 'Cancelled'.

1.17 Cancellation of enrolment

FORM:	Change to Enrolment Form (Form C).
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Enquiry Counters.

Students may cancel their enrolment in a course at any time but should take into account the provisions of Rule 1.9.

1.18 Re-admission following a period of non-attendance or exclusion

FORM:	Re-admission Form (Form R) or Application for Admission as an International Student (Form F).
SOURCE:	QUT Admissions Office, Kelvin Grove campus or QUT Office of International Students, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	QUT Admissions Office, Kelvin Grove campus or QUT Office of International Students, Kelvin Grove campus Campus Enquiry Counters.

Students who wish to re-enter a course after a period of absence and who are not returning from leave of absence may apply for re-admission.

Re-admission applicants who have not completed all first and second semester units listed in the course requirements for the full-time mode of an undergraduate course must satisfy the entry requirements and cut-off levels applicable for the relevant admissions period.

Students who have been excluded from a course as a result of unsatisfactory academic performance will not be considered for re-admission until at least two semesters have elapsed since exclusion. Applications require the approval of the relevant Faculty Academic Board.

Application is made directly to the University and must be lodged by the published due date of the semester in which the student wishes to resume. The student must submit a written statement in support of the application, which should address such factors as changed circumstances, academic and/or vocational performance since exclusion, maturity and motivation.

A student who is permitted to re-enrol following a period of absence will be required to satisfy the course requirements which apply at the time of resumption. Depending on the length of the absence and on changes to course content and structure during the intervening period, the student will not necessarily retain credit for all units completed prior to the absence. The course coordinator may require a student to repeat units which have been passed previously or to undertake additional units in order to satisfy the current course requirements.

1.19 Time limits for completion of courses

Students are expected to progress with minimum interruption towards completion of their course.

Time limits have been established for each type of course and are measured in calendar years from the first day of the first semester in which the student was enrolled. The time limits, inclusive of periods of exclusion, leave of absence or other periods of interruption, are as follows:

Doctoral and master degree courses by research	as per course requirements
Master degree courses equivalent to two years of full-time study	6 years
Graduate diplomas, honours degrees, degrees and master degrees equivalent to one year of full-time study	4 years
Degrees, graduate diplomas and master degrees equivalent to one and a half years of full-time study	5 years
Bachelor degrees and diploma courses	10 years
Combined degree courses	11 years
Associate degree and associate diploma courses	7 years
Graduate and advanced certificate courses	2 years

Students who exceed these limits may be asked to show cause why they should not be excluded from further enrolment in the course.

Students excluded because of failure to complete a course within time limits have the right of appeal. (See Rule 8, Student appeals.)

2. Sanctions on students who fail to meet obligations

The Registrar may impose sanctions on a student who has failed to meet one or more of the following obligations:

- ☐ payment of prescribed fees
- ☐ payment of late fees
- ☐ payment of fines
- ☐ payment of a debt to the University
- ☐ return of Library materials/Faculty equipment or materials
- ☐ conforming with instructions or essential procedures.

One or more of the following sanctions may be applied:

- (i) withholding of results
- (ii) withholding of transcript of academic record
- (iii) withholding of award certificate
- (iv) loss of right to re-enrol.

In lieu of (i), (ii) and (iii) above, a statement that the student has completed course requirements may be provided for purposes of seeking employment.

Sanction (iv) shall not apply to a case of failure to meet an obligation to repay a debt to the University.

The student will be informed in writing of the application of sanctions. (Refer to Section 6, Review of grades and academic rulings, for provisions for appeal against the imposition of sanctions.)

The sanctions will be lifted once the student has discharged the obligation which led to their application.

3. Non-award studies

3.1 Definition

Non-award students are those who have approval to undertake certain units from an award course without enrolling in the course itself.

Non-award students receive normal instruction, assessment and examination results in such units but are not admitted to undertake a complete award course.

3.2 Categories

There are two categories of non-award students:

- ☐ cross-institution students who undertake QUT units for credit towards an award course at an Australian Commonwealth-funded institution

- visiting students who undertake units from award courses for purposes of professional or personal development, or in order to meet course entry requirements.

3.3 Application procedure

Non-award students are required to make application for each semester in which they wish to study. Applicants are responsible for obtaining information on unit availability, suitability of their background and timetables.

An application for enrolment as a non-award student may be rejected if the applicant does not have an educational background appropriate to the unit/s applied for, or if there are insufficient places remaining in the class. An application for enrolment as a non-award student requires the approval of the relevant Dean of Faculty.

3.3.1 Cross-institution student

FORM:	Cross-institution Admission Form (Form X).
SOURCE:	QUT Admissions Office Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	QUT Admissions Office Kelvin Grove campus; Campus Enquiry Counters.

An application for admission as a cross-institution student must be accompanied by documentary evidence from a recognised institution of higher education that the proposed unit/s are accepted for credit in a course offered by the institution.

3.3.2 Visiting student

FORM:	Visiting Student Application Form (Form V).
SOURCE:	QUT Admissions Office Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	QUT Admissions Office Kelvin Grove campus; Campus Enquiry Counters.

3.4 Fees for non-award studies

Cross-institution students are required as a condition of their enrolment to make payments under the Higher Education Contribution Scheme, and to pay fees for membership of the QUT Student Guild.

Visiting students are required to pay tuition and other fees as advised by the University. Non payment of fees will lead to cancellation of enrolment.

3.5 Rules relating to non-award studies

Non-award students are subject to the University's student rules generally, with the exception of those relating to unsatisfactory academic performance (Section 7).

A visiting student is not permitted to accumulate credits for units totalling more than 20 per cent of the credit points of an award course except in special cases approved by the Registrar.

Award course students may use previous visiting student studies as a basis for applying for credit under the terms and conditions of the existing policy for transfer of credit (Section 4). The maximum credit allowable will be determined by the rules applying to credit transfer for the specific award course for which the credit is sought.

Non-award students who are not otherwise qualified to gain entry into an award course but as visiting students have completed successfully units drawn from that award course will be granted entry into the award course subject to the availability of places within any quota that may apply.

Where a student is excluded from a course, the student is not permitted to enrol as a non-award student in any unit of that course except at the discretion of the Dean of Faculty responsible for the course.

4. Transfer of credit

FORM:	Application for Credit.
SOURCE:	Credit Office, Kelvin Grove campus; Campus Enquiry Counters.
SUBMIT TO:	Credit Office, Kelvin Grove campus; Campus Enquiry Counters.

4.1 Policy

Recognition in the form of credit will be given for study, demonstrable expertise and relevant experience to an extent that is consistent with the maintenance of established academic standards. It is considered to be in the interests of students to facilitate their movement between institutions and between courses of various types and levels. The University has negotiated formal arrangements with some institutions concerning the transfer of students and the granting of agreed credit (Appendix 1); where no such arrangement exists, applications will be considered on their individual merits and in the spirit of this policy. The course coordinator, in consultation with the lecturer responsible for the unit where appropriate, is responsible for approving applications for credit which are not covered by a formal arrangement.

In making a determination on an application for credit, consideration will be given to the following:

4.1.1 Total credit available

The total credit available is dependent upon the length of the course. For courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one-half of the credit points required for course completion. For courses exceeding one year of equivalent full-time study, credit may be granted up to a limit which requires the student to complete the equivalent of one year of full-time study at QUT.

In practice, credit will be approved for all suitable units until:

- (i) all suitable units have been accounted for, or
- (ii) credit has been awarded up to the total credit available limit.

Situation (i) will apply when the student has completed too little work to reach the total credit available limit, or when sufficient work has been completed but in a different field of study or at a significantly different level.

When situation (ii) occurs the student will be offered the option of accepting this quantity of credit and enrolling in the course or, alternatively, completing the course of the previous institution by means of an agreed upon program of study at QUT as a non-award student. Considerations will include how much credit the student would forfeit by accepting the amount offered, and whether or not a suitable program of study can be devised. The student's previous institution must agree in advance to the program proposed. It is the student's responsibility to secure the agreement of the previous institution.

4.1.2 Recency of previous studies

In determining whether credit can be granted the University must be confident of the currency of the applicant's knowledge. Studies undertaken ten or more years previous to the date of application will not be accepted for credit purposes unless a special case is

made or assessment is given to establish the currency of the applicant's knowledge. Further, in fields where practice and technology is changing rapidly, credit may not be granted where knowledge has become dated.

4.2 Forms of credit

Three alternatives are available:

4.2.1 Specified exemption

Specified exemption will be approved when prior studies, expertise or experience satisfy the objectives and requirements of the unit for which credit is sought.

4.2.2 Unspecified exemption

Where course rules permit, exemption may be given from an unspecified unit on the basis of prior completion of studies judged to be equally acceptable within the structure of the course.

4.2.3 Block exemption

Where course rules permit, block exemption of a fixed number of credit points may be given on the basis of prior completion of studies judged to be equally acceptable within the structure of the course.

Credit may be granted on a provisional basis, in which case the confirmation of the granting of credit is dependent on the student's performance in some specified part of the course.

4.3 Application procedure

4.3.1 Timing of applications

Admission applicants who also intend to apply for credit should do so immediately they are in possession of all the required documentation. Applications may be submitted before an offer of admission has been received, and must be submitted before the stipulated due date. Applications received after the due date may not be processed in time for first semester unit choices to be adjusted to reflect credit granted; applications received after the census date in any semester cannot be effective for that semester.

Students already enrolled in a QUT course who become eligible to apply for credit should ensure that their application is submitted before the due date for any semester in which the award of credit might affect their unit enrolment.

4.3.2 Documentation

Applicants are responsible for providing an official transcript of results and copies of the outline or syllabus of units completed. Before doing so, applicants are encouraged to contact the appropriate course coordinator to determine which of their former units are likely to be relevant. Undocumented applications will not be considered.

4.3.3 Other requirements

Applicants for credit may be required to attend an interview or to undergo an appropriate form of assessment.

4.3.4 Notification

Decisions on applications for credit will be conveyed in writing by the Registrar.

4.4 Review of credit application decisions

Applicants for credit who are dissatisfied with the outcome of an application may have the decision reviewed and can expect to be provided with a clear indication of the reasons for the University's ruling. The review procedure is set out in Section 6, Review of grades and academic rulings.

5. Assessment

Assessment policy

5.1 Assessment policy

Students will be assessed in accordance with the published assessment policy and practices of the Faculty offering the unit.

5.2 Notification of assessment requirements

A unit outline will be published and a copy made available for each student as soon as possible and no later than the second week of a teaching period. The outline will contain at least the following information:

- ☐ unit objectives
- ☐ statements of all assessment items, including due dates
- ☐ procedures to be used in determining the final grade including, where appropriate, a statement of any item/s for which a pass is required in order to gain an overall pass in the unit
- ☐ procedures for reviewing the mark for an assessment item
- ☐ procedures to facilitate feedback on progressive assessment during the course of a semester
- ☐ a reference to the University's policy on plagiarism and any specific guidance to the student on the nature of the unit's assessment items.

No subsequent changes to assessment requirements will be made except by mutual agreement between the lecturer responsible for the unit and the students taking the unit, and then only if approved by the relevant Head of School.

Assessment rules

5.3 Availability for examinations

Internal students must be available to undertake examinations at the relevant QUT campus throughout periods designated for centrally organised examinations and at times specified in unit outlines for school-based examinations. External students will sit examinations at the same time as internal students, however they undertake them at external examination centres. A student who fails to attend an examination receives no mark for the examination unless he or she is granted a deferred examination.

Examinations may be held between 8.00am and 9.00pm on weekdays, and 8.00am and 6.00pm on Saturdays.

5.4 Timetables

Final timetables for centrally organised examinations will be released to students no later than two weeks prior to their commencement.

5.5 Student identification

Students must bring into the examination room and keep displayed their current Student Identification Card.

5.6 Students to comply with directions

5.6.1 A student shall comply with all directions given by the examination supervisor and all instructions to candidates set out on the examination materials or displayed in the examination room.

5.6.2 A student's behaviour must not disturb, distract or adversely affect any other student.

5.7 Entering and leaving an examination room

5.7.1 Students who are given permission to enter or leave an examination room shall comply with all conditions on which the permission is given.

5.7.2 Students are not permitted to leave the examination room:

- (i) until half the prescribed working time has elapsed
- (ii) during the last 15 minutes of working time

unless there are exceptional circumstances such as illness.

5.7.3 Students who arrive late and before half the working time of the examination has elapsed will normally be permitted to take the examination. However, no additional working time will be allowed unless exceptional circumstances warrant.

In the case of central examinations the decision to grant extra time is made by the Examinations Officer, in consultation where necessary, with the unit coordinator.

5.8 Unauthorised material not to be brought into the examination room

Students may bring into an examination room only those materials approved for the unit under examination and indicated as such on the examination paper. All other materials are expressly prohibited unless:

- (i) brought into the room with the permission of the examination supervisor, and
- (ii) deposited by the student directly upon entering the examination room at a place stipulated by the examination supervisor.

It is inconsequential for this rule that the unauthorised material is not related to the unit under examination.

5.9 Student not to remove papers

A student shall not remove from the examination room any worked scripts or other paper provided for use during the course of the examination (other than the question paper supplied where this is authorised by the examination supervisor) or other material which is the property of the University.

5.10 Student not to communicate with others

During an examination a student shall not communicate by word or otherwise with any other person except the examination supervisor or examiner.

5.11 Cheating

Students are expected to exhibit honesty and ethical behaviour in undertaking assessment requirements of units. Cheating is defined as any behaviour whatsoever by students in relation to any item of assessment which may otherwise defeat the purposes of the assessment.

A student shall not cheat, attempt to cheat, or incite or assist other students to cheat in any assessment item.

5.12 Plagiarism

A student shall not plagiarise in any item of assessment.

Plagiarism is the act of taking and using another person's work as one's own. Where plagiarism occurs in items of assessment contributing to the result in a unit or course, it

shall be regarded as, and treated in the same manner as, cheating in an examination. For the purpose of these rules any of the following acts constitute plagiarism unless the work is appropriately acknowledged:

- ☐ copying the work of another student
- ☐ directly copying any part of another person's work
- ☐ summarising the work of another person
- ☐ using or developing an idea or thesis derived from another person's work
- ☐ using experimental results obtained by another person
- ☐ incitement by a student of another to plagiarise.

Penalties for breach of assessment rules

5.13 Penalties

5.13.1 If a student breaches Rules 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, or 5.12, the student may be dealt with under the Student Discipline By-law.

5.13.2 A student who breaches any of the rules stated in 5.13.1 above shall be liable, in addition to any other penalty, to incur the following penalties:

- (i) the award of a Low Fail result in the unit concerned
- (ii) the award of Low Fail results in all units in which the student would have received final results in the same academic semester
- (iii) exclusion from the University for a period
- (iv) expulsion from the University.

5.13.3 Students accused of a breach of the rules will be given the opportunity to show cause why a penalty should not be applied.

5.13.4 A student excluded because of breach of assessment may appeal to the Academic Appeals Committee. An appeal must state the grounds and reasons for the appeal and must reach the Secretary of the Academic Appeals Committee within 14 days of the date of the letter advising the student of the penalty.

Deferred examinations and special consideration of factors affecting student's performance in assessment

FORM:	Application for Deferred Examination/Special Consideration.
SOURCE:	Examination Office, Gardens Point campus; Campus Enquiry Counters.
SUBMIT TO:	Examination Office, Gardens Point campus; Campus Enquiry Counters.

5.14 Deferred examinations

Students who through medical or other exceptional circumstances beyond their control are unable to attend an examination at the prescribed time or complete an examination may apply to sit for a deferred examination.

Applications for deferred examinations should include the documentation detailed in Rule 5.16 and should normally be submitted prior to or within three days of the examination date, depending on the circumstances.

Normally, deferred examinations are not granted to candidates who misread examination timetables.

A deferred examination is regarded as a significant concession to a student and, as such, will only be granted when a properly documented and timely case is made by the applicant. Students should not expect to be granted an unlimited number of deferred examinations.

Students will receive written notification of the outcome of their application including, where appropriate, the date, time, campus and format of the deferred examination.

5.15 Special consideration of factors affecting assessment performance

Students who consider that their performance in an assessment item was adversely affected by illness or other exceptional circumstances beyond their control may apply for special consideration.

Applications for special consideration, including the documentation detailed in Rule 5.16, should normally be submitted prior to or within three days of the examination or the submission of the assessment item.

5.16 Documentation required for deferred examination or special consideration

5.16.1 Students applying for a deferred examination or special consideration on medical grounds must submit a medical certificate from a registered medical or dental practitioner stating:

- ☐ the date on which the practitioner examined the student
- ☐ the nature, severity and duration of the complaint, and
- ☐ the practitioner's opinion of the effect of the complaint on the student's ability to sit for or perform satisfactorily in the assessment item.

A statement that a student was 'not fit for duty' or was suffering from a 'medical condition' will not be accepted.

It is preferred that the practitioner provides a statement on surgery letterhead paper or alternatively, completes the formatted medical certificate printed on the reverse side of the application form.

5.16.2 Students applying for a deferred examination or special consideration on other than medical grounds must submit with the application a statutory declaration stating the disability or exceptional circumstances which:

- ☐ prevented or will prevent the student from sitting for the examination in the case of an application for a deferred examination
- ☐ affected the student's performance in the assessment item in the case of an application for special consideration.

Students should also supply any corroborative evidence in support of the application.

Religious convictions

5.17 Alternative examination sittings

Students with religious convictions which preclude attendance at examinations in accordance with the official timetable have the right to alternative examination arrangements. Written requests for alternative examination sittings must be submitted to the Examinations Officer within 14 days of the release of the final timetable and include supporting documentation from the religious leader on organisational letterhead.

Grading scale

5.18 Final results

Pass Grades

7	High Distinction
6	Distinction
5	Credit
4	Pass
3	Low Pass (see Note)
S3	Pass Supplementary; final grade awarded following satisfactory completion of supplementary assessment (see Note), or
S	Satisfactory (where approved for use).

Fail Grades

2	Fail
S2	Fail Supplementary
1	Low Fail
K	Withdrawn – Failure, or
U	Unsatisfactory (where approved for use).

(Note: A grade of 3 counts as a passing grade for the purpose of completing award requirements and fulfilling prerequisite requirements, except where it is stated in course rules that a higher grade is required. The limit on the number of grades of 3 which may be credited towards an award is specified in Appendix 2. Grades of S3 are not regarded as equivalent to grades of 3 for purposes of Appendix 2.)

Other Results

E	Exempt
W	Withdrawn

5.19 Unfinalised results

The following will be recorded when a result is not finalised at the time of release of results :

A	Result Unfinalised	– The result will be issued when available.
SA	Supplementary Assessment	– Student is to undertake supplementary assessment.
DA	Deferred Assessment	– Student is to undertake deferred assessment.
T	Assessment Continues	– Studies extending over more than one semester.

5.20 Grade Point Average

The Grade Point Average (GPA) is a simple numerical index which summarises the student's academic performance in a course in a single semester and over the duration of the student's enrolment in the course.

The GPA is reported on the Certificate of Results and on the Statement of Academic Record. Two values of the GPA are given: the GPA for the semester and the GPA in the course.

$$\text{GPA} = \frac{\sum (\text{credit points of unit} \times \text{numeric value of grade})}{\sum (\text{credit points of unit})}$$

Notes:

- ☐ The GPA calculation includes all attempts at units which are awarded a numeric grade or the result 'Withdrawn – Failure' (which is converted to a 1).
- ☐ Unfinalised results are not included in the calculation.
- ☐ Only QUT units are included (not units taken at an external institution).

- Only units taken after the introduction of the seven-point grading scale are included in the calculation.

Release of results

5.21 Release of results

Following certification by Deans of Faculties, results will be released at the direction of the Registrar.

5.22 Notification of results

A Certificate of Results will be mailed to each student at the end of each semester and after the completion of any Summer School studies.

Passing grades and unfinalised results are published in the press.

Noticeboard lists containing all results are placed on University campus noticeboards.

5.22.1 Request for non-publication of results

FORM: Application for Non-publication of Results.
SOURCE: Examination Office, Gardens Point campus;
Campus Enquiry Counters.
SUBMIT TO: Examination Office, Gardens Point campus;
Campus Enquiry Counters.

Students may request to have their results withheld from public release on campus noticeboards and in the press. Application must be made no later than 30 May for first semester, 30 October for second semester and 31 December for Summer School studies. The request to withhold results from public release will remain in force until revoked in writing by the student.

Graduation

5.23 Eligibility for graduation

Students are eligible to graduate upon completion of course requirements.

A passing grade must be achieved in all units set out in the course structure, except that in certain specified units a grade of 4 or better must be obtained to satisfy the course requirements. In addition, Faculty Academic Boards have set a limit on the number of grades of 3 which may be credited towards awards. These limits are specified in Appendix 2.

Once a student has completed course requirements, a date of completion and the student's graduation name will be recorded. The date of completion will normally be the date of the release of the final grade to effect graduation.

6. Review of grades and academic rulings

FORMS: Application for Review of Grade,
Application for Review of Academic Ruling.
SOURCE: Examination Office, Gardens Point campus;
Campus Enquiry Counters.
SUBMIT TO: Examination Office, Gardens Point campus;
Campus Enquiry Counters.

6.1 Review of grades

During the course of a semester students should discuss their progress in all coursework

exercises (including examinations which form part of progressive assessment) with relevant teaching staff, and can expect to be provided with a clear indication of the extent to which they have or have not achieved the objectives set for each assessment item.

Any student who believes that an error has been made or an injustice done with regard to a final grade for a unit may request a review of the grade.

Where, after discussion, the student believes that an error persists or that the final grade is not a fair reflection of his or her work, the student may request a review at the end of semester following notification of the final grade.

The review process may involve three steps.

Step 1 – Informal consultation

Upon notification of the final grade, a student who is dissatisfied with the grade should contact relevant teaching staff (lecturer, unit coordinator, course coordinator) and seek clarification of the reason for the grade.

Step 2 – School-level review

If a student remains dissatisfied after Step 1, or if the student is unable to make contact with relevant teaching staff, an application for a formal review may be submitted. Applications must be made on an Application for Review of Grade Form.

Applications normally must be submitted to the Registrar within 14 days of the release of the results, accompanied by appropriate information and documentation if available, and must state the specific grounds on which the application for review is based.

The Application for Review is forwarded to the Head of School responsible for the unit in dispute, who determines the form of the review. The University minimally requires that any such review consider whether all items of assessment have been marked and whether the aggregate marks were compiled accurately.

The Registrar normally advises students of the outcome within 14 days of receipt of the application.

Step 3 – Faculty-level review

A student who is dissatisfied with the outcome of Step 2 may apply to the Registrar within seven days of receipt of such notification to progress to a further stage of review. The student must resubmit the Application for Review Form stating why the previous review was inadequate and may provide additional reasons or evidence for the further review.

The application is forwarded through the chairperson to the faculty review committee, which is a sub-committee of the faculty academic board, and which minimally must comprise the dean (or nominee), a member of academic staff and a student representative appointed by the faculty academic board. The quorum of the committee is three. The committee determines whether grounds exist for the further review.

The process for Step 3 requires the faculty involved, through the relevant Head of School, to reconsider the assessment of the item(s) in dispute. All such reconsiderations must be accompanied by a written rationale for the final decision reached, to ensure that due process has been observed and that a record exists of the decision.

Outcomes of such reviews must be endorsed by the faculty-level review committee. The committee determines whether reviews have been conducted appropriately, monitors the number and type of reviews conducted and reports on its activities to the faculty academic board.

The Registrar normally advises students of the outcome within 21 days of receipt of the application.

Reviews may lead to no change or to either a less favourable or more favourable outcome for the student.

Reviews under Steps 2 and 3 involve separate fees, which are reimbursed if a higher grade is awarded following the review.

6.2 Review of academic rulings

Students who have received advice of a ruling in regard to an academic matter (for example, amount of credit awarded, cancellation of units, amendment of enrolment program, refusal of application to waive prerequisite), and who wish to be provided with further information on the basis and implications of the ruling, should contact their faculty office. Faculty administration officers will provide available information in response to such a request, or arrange for the student to have further discussions as deemed appropriate in the circumstances.

If, after having received such further advice, the student believes that an error has been made or that a ruling is unjust, the student is entitled to submit an application for review. Applications must be made on an Application for Review of Academic Ruling Form.

Applications must be submitted to the Registrar within 14 days of mailing of written advice of a ruling. Applications must be accompanied by appropriate information and documentation if available, and must state the specific grounds on which the application for review is based.

Applications are referred to the relevant dean of faculty, who determines the form of the review. A review may lead to no change or to either a less favourable or more favourable outcome for the student. The Registrar advises students of the outcome of reviews.

6.3 Status of students awaiting the outcome of a review

The University will make determinations on reviews as soon as practicable, but will not necessarily resolve any particular case before the close of enrolments for the next semester.

In this event the student remains bound, pending resolution of the case, by the ruling or by the consequences of the grade which are the subject of the review or appeal, except in special circumstances as may be determined by the Registrar.

7. Unsatisfactory academic performance and exclusion

Students are expected to maintain a satisfactory level of performance in their studies at QUT. Performance is reviewed at the end of each semester. Students whose performance is unsatisfactory are placed on probationary enrolment. If performance continues at an unsatisfactory level the student may be excluded. In addition, a single failure in a unit designated as critical to students' progress in the course may result in exclusion.

This policy applies to studies undertaken while enrolled in an award course. Non-award students are required to apply for enrolment each semester, and their applications may be accepted or rejected by the Registrar on the recommendation of the relevant Dean of Faculty.

7.1 Probationary enrolment

A student is placed on probationary enrolment if:

- (i) the student fails a unit which has been failed previously, or
- (ii) the student has a Grade Point Average of less than 3.0 in the course in which he or she is enrolled.

For the purpose of this rule a unit is uniquely identified by the unit code. Where a unit code has been changed on administrative grounds, the unit will be deemed to be the same unit for the purpose of this rule.

The Registrar notifies students that they have been placed on probationary enrolment and advises them that they should discuss their progress with their course coordinator.

7.2 Terms of probationary enrolment

Students on probationary enrolment are required to enrol as the course coordinator directs.

Students placed on probationary enrolment at the end of first semester remain on probationary enrolment for the duration of the following semester. Students placed on probationary enrolment at the end of second semester remain on probationary enrolment for the duration of the following academic year.

If a student cancels their enrolment while on probationary enrolment, any subsequent enrolment in that course is a probationary enrolment for the purposes of defining eligibility for exclusion. The periods of probationary enrolment before and after the period of cancelled enrolment are counted as one period of probationary enrolment.

7.3 Exclusion

The Faculty Academic Board may exclude a student under the following circumstances:

- (i) at the end of an academic year, the Academic Board may exclude a student who has had, or is eligible for, a second or subsequent period of probation during the year
- (ii) at the end of a semester, the Academic Board may exclude a student who has failed to achieve a satisfactory level of performance in a designated unit.

Designated units are indicated in Appendix 3 and include professional experience units, units requiring the development of particular skills and units requiring certain personal qualities. A satisfactory level of performance in a designated unit is a grade of 4 (Pass) or higher, or S – Satisfactory, where appropriate.

A student who is eligible under (i) or (ii) above but who is not excluded by the Academic Board is placed on probation.

Exclusion normally applies to the course in which the student was enrolled. An Academic Board may exclude a student from all courses or a specified group of courses offered by the faculty if the student is eligible for exclusion under (i) or (ii) above and has either had at least two periods of probationary enrolment or been excluded previously from another QUT course.

Academic Committee, on the recommendation of the Academic Board, may exclude a student from all QUT courses if the Academic Board is recommending exclusion from all the faculty's courses and the student has been excluded previously from a course in another faculty.

An excluded student may not enrol as a non-award student in any units in the course or courses from which they have been excluded except at the discretion of the Dean of the Faculty responsible for the course.

Students who are excluded are notified by registered mail. Excluded students have the right of appeal to the Academic Appeals Committee.

7.4 Duration of exclusion and readmission after exclusion

If a student does not appeal against an exclusion decision or if the student's appeal is not successful, the exclusion remains in force for an indefinite period of time and may only be

revoked by the decision of the Faculty Academic Board to approve an application for readmission.

An application for readmission will not be considered until at least two semesters have elapsed since exclusion.

The student's application for readmission must be accompanied by a statement which addresses such factors as changed circumstances, academic and/or vocational performance since exclusion, maturity and motivation.

Students readmitted after a period of exclusion will be placed on probationary enrolment for the remainder of the academic year.

At the end of the academic year, the Academic Board of the relevant faculty will review the academic performance of each student readmitted to the course during that year. If the student's Grade Point Average since readmission is less than 3.5, the student may be excluded as per Rule 7.3.

If the student is permitted to proceed with the course, in subsequent years the student is subject to the probationary rules. In administering the probationary rules, units failed prior to the period of exclusion and the Grade Point Average prior to the period of exclusion will be taken into account.

8. Student appeals

A student who has been excluded on the grounds of unsatisfactory academic performance or failure to complete an award within time limits or who has been excluded because of breach of assessment rules has right of appeal.

8.1 General procedure to lodge an appeal

Appeals are made in writing to the Secretary of the Academic Appeals Committee. Applications must be made on an Exclusion Appeal Form and must include the grounds and reasons for the Appeal. Appeals must reach the Secretary of the Academic Appeals Committee within 14 days of the date of the letter which advised the student of the exclusion.

8.2 Appeals against exclusion for unsatisfactory academic performance

An appeal against exclusion for unsatisfactory academic performance is referred to the relevant Faculty Academic Board. The Academic Board recommends to the Academic Appeals Committee whether the appeal should be upheld or dismissed. The Committee considers:

- ☐ whether the penalty imposed and procedures followed were correct according to policy and rules
- ☐ the severity or otherwise of the penalty imposed
- ☐ mitigating circumstances advanced by or on behalf of the student in the appeal.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion may not speak unless invited to do so by the Chair of the Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

When an appeal against exclusion is upheld, the student is placed on probationary enrolment for the remainder of the academic year.

8.3 Appeals against exclusion for failure to complete a course within time limits

An appeal against exclusion for failing to complete a course within time limits is referred to the relevant Academic Board. The Academic Board recommends to the Academic Appeals Committee whether the appeal should be upheld or dismissed. The Committee considers:

- ☐ whether the penalty imposed and the procedures followed were correct according to the relevant policies and rules
- ☐ the severity or otherwise of the penalty imposed
- ☐ mitigating circumstances advanced by or on behalf of the student in the appeal.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion may not speak unless invited to do so by the Chair of the Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

When the Academic Board recommends that an appeal be upheld, the Board includes in its report a specified period in which the student will complete the course requirements and any units or special examinations that the student will be required to undertake.

When the Academic Appeals Committee decides that an appeal be upheld, the appeal is referred back to the Academic Board to determine conditions under which the student may complete the course.

8.4 Appeals against exclusion for breach of assessment rules

An appeal against exclusion for cheating is referred to the Academic Appeals Committee which determines whether the appeal should be upheld or dismissed. The Committee considers:

- ☐ whether the original penalty was correct under the relevant rules
- ☐ whether procedures were properly carried out
- ☐ the severity or otherwise of the penalty imposed.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion may not speak unless invited to do so by the Chair of the Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

8.5 Status of students awaiting the outcome of an appeal

The University will make determinations on academic appeals as soon as practicable, but will not necessarily resolve any particular case before the close of enrolments for the next semester.

In this event the student remains bound, pending resolution of the case, by the ruling or by the consequences of the grade which are the subject of the appeal, except in special circumstances as may be determined by the Registrar.

9. Higher Education Contribution Scheme

Under the Commonwealth Government legislation, all students must comply with certain conditions with respect to the Higher Education Contribution Scheme (HECS) as a condition of their enrolment.

9.1 HECS Payment Options Form

All students are required to lodge the *HECS Payment Options Form* at the time of their initial enrolment in a course. A new *HECS Payment Options Form* must be lodged when a student changes course or when a student wishes to change HECS payment options. Students concurrently enrolled in more than one course are required to lodge a new *HECS Payment Options Form* for each course.

Unless a student is exempted from HECS under the terms of the Commonwealth legislation, the student must select either the up-front payment option or the deferred payment option as the method for making their HECS payment.

Students who fail to lodge a valid *HECS Payment Options Form* by the first day of the semester of enrolment in their course will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

9.2 Up-front payment option

Students who select the up-front payment option are sent an invoice for the HECS amount to be paid. The calculation is based on the recorded enrolment of the student for the semester on the invoiced date.

A student who fails to pay in full the invoiced amount by the due date will be charged a late fee for the acceptance of the up-front payment or must complete a *HECS Payment Options Form* selecting the deferred payment option and provide their tax file number.

Students who fail to take the action specified above will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

9.2.1 Safety Net provision

Students who select the up-front payment option may also choose the Safety Net provision. This provision allows the University to change a student's method of HECS payment to the deferred payment option if the HECS up-front payment has not been received by the semester census date. Where the method of HECS payment has been changed to the deferred payment option in this way students must submit a new HECS Payment Option Form by the first day of semester if they wish to change back to making up-front payments.

9.3 Deferred payment option

Students who select the deferred payment option must provide their tax file number or a certificate from the Australian Taxation Office confirming that a tax file number has been applied for. Students who have submitted such a certificate must subsequently inform the Student Fees Office of their tax file number within 28 days.

Students who fail to supply their tax file number will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

9.4 Changing HECS payment option

Students may change their HECS payment option by lodging a new *HECS Payment Options Form* by the first day of the semester. The new payment option applies to all future semesters until a further change of payment option is notified.

9.5 The HECS Notice of Liability

Following the census date for a semester, students are provided with a HECS Notice setting out their HECS liability for the semester which was determined by their unit enrolment on the census date.

Students have 14 days from the date of the HECS Notice of Liability to advise Student Administration of any error in the notice.

In the case of students selecting the up-front payment option, if a student's enrolment program has changed since the initial invoice, the student may be required to pay an additional amount or a refund may be provided.

Students who fail to pay in full any additional amount will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

10. Student Guild fee rules

10.1 Membership of the Guild

Subject to Rule 10.2, all enrolled students, excepting such persons or classes of persons as QUT Council declares by resolution to be ineligible for membership, shall be members of the Guild.

10.2 Conscientious objection

An enrolled student who:

- ☐ declares by letter addressed to the Registrar the nature of his or her conscientious objection to being a member of the Guild
- ☐ notifies the Guild that he or she has made such declaration in writing to the Registrar
- ☐ pays to QUT an amount equivalent to the Guild fees which would be payable if the student were a member of the Guild, and
- ☐ pays to QUT an amount equivalent to 10 per cent of the Guild fees as a fee for use of University facilities in processing the declaration of conscientious objection

is exempt from membership of the Guild.

10.3 Fees to be paid

Guild fees payable for membership of the Guild shall be the amount approved by QUT Council. Guild fees for both semesters shall be paid in full prior to, or at the time of, submitting an enrolment form.

10.4 Consequences of non-payment or part-payment

If Guild fees payable by a student have not been paid at the time of lodging an enrolment form, or the student has not notified the Registrar of a conscientious objection as per Rule 10.2, the Registrar may refuse to accept the student's enrolment.

A student who has not paid all Guild fees due and who satisfies the Registrar that he or she is unable to make payment at the time of submitting an enrolment form may be granted an extension of time in which to pay the fees. In this case the enrolment is accepted subject to an agreement that all Guild fees will be paid by the extended date indicated by the Registrar.

A student who has not paid the full amount of Guild fees due may have their enrolment cancelled or may have sanctions imposed as specified in Rule 2.

10.5 Refund of fees

A student who cancels enrolment on or before 31 March for first semester or 31 August for second semester shall be entitled to a refund of the Guild fees for that semester. The refund will be made by the University on behalf of the QUT Guild. The student is required to surrender any current QUT Student Card.

11. Miscellaneous student charges

11.1 Guild fees

Full-time students	\$150
Part-time students	\$ 68
External students	\$ 20

11.2 Postgraduate tuition fees

Students enrolled in courses shown below will be required to pay the postgraduate tuition fee listed, unless they have been previously enrolled in the course on a HECS liable basis.

BS81	Master of Business Administration	\$55 per credit point ¹
ED14	Master of Education (TESOL)	\$50 per credit point
EE78	Master of Engineering Science in Electricity Supply Engineering	\$142 per credit point plus \$1000 thesis supervision charge
BS78	Graduate Diploma in Business (Administration)	\$55 per credit point ¹
BS72	Graduate Diploma in Communication	\$65 per credit point
EE60	Graduate Diploma in Electricity Supply Engineering	\$142 per credit point
AR80	Graduate Certificate in Architectural Practice	\$50 per credit point
ED60-75	Graduate Certificates in Education	\$50 per credit point
EE82	Graduate Certificate in Electricity Supply Engineering	\$142 per credit point
IT18	Graduate Certificate in Information Technology	\$100 per credit point
BS30	Graduate Certificate in Management	\$55 per credit point ¹
CN81	Graduate Certificate in Project Development	\$70 per credit point

Students who fail to pay the invoiced amount by the due date will be charged a late fee for acceptance of the payment. Failure to pay the required fee by the semester census date will lead to cancellation of enrolment.

11.3 Administrative charges

Late lodgement of application for admission	\$ 20
Late lodgement of enrolment form	\$ 30
Late addition to an enrolment program	\$ 20
Addition to enrolment program not made on the prescribed form	\$ 20
Reinstatement of enrolment following administrative cancellation	\$ 30
Lodgement of Postgraduate Change of Preference Form	\$ 20
Review of grades (refundable)	
Step 2 – School-level review ²	\$ 10
Step 3 – Faculty-level review ²	\$ 20
Copy of examination script	\$ 10 (per script)
Statement of Academic Record	\$ 5
Re-issue of ID Card	\$ 5
Late collection of ID card	\$ 10
Re-issue of Award Certificate	\$ 40
Re-issue of receipt for fees paid	\$ 5
Late fee for up-front HECS payment	\$ 50
Late fee for payment of tuition fees	\$ 50
Re-issue of Notice of HECS liability	\$ 5

11.4 Deposit system for use of laboratory facilities

A student enrolled in any unit included in the 'Schedule of Units relating to Laboratory Deposits', which the Registrar may vary from time to time, shall deposit \$50 for the use of laboratory facilities.

¹ Students commencing these courses in 1995 will be charged \$65 per credit point.

² Refer to 6.1 Review of grades.

The student shall be required to pay only one deposit irrespective of the number of such units included in an enrolment.

At the end of the year the deposit shall be refunded to the student less the cost of any breakages which have not been made good.

APPENDIX 1: Credit transfer policies

1.1 Policy statement: general principles concerning transfer of credit and combined awards – Technical and Further Education; Training, Employment, Queensland (TAFE.TEQ)/QUT

There is a history of favourable credit transfer arrangements between various TAFE.TEQ and QUT courses. Further, there is a general willingness on the part of TAFE.TEQ and QUT to review courses to identify areas in which advanced standing, transfer of credit, efficient progression from TAFE.TEQ to QUT courses and the development of combined awards might be appropriate. TAFE.TEQ and QUT seek to eliminate unnecessary barriers to student progression, recognise problem areas and seek appropriate solutions and processes so that increased numbers of better educated graduates can be made available to industry.

The following principles form the substance of the agreement between QUT and TAFE.TEQ in this area.

Principles

Note: These principles apply specifically to credit transfer arrangements and combined awards between TAFE.TEQ associate diploma and diploma courses and QUT degree level courses in related fields.

- (i) **Course development/review:** When developing and/or reviewing units with common or closely linked vocational outcomes, TAFE.TEQ and QUT will work in consultation with a view to establishing automatic equivalence. Units developed in this way will give TAFE students full QUT exemptions.
- (ii) **Block exemptions:** The awarding of block credits is given a high priority. This allows for appropriate substitution in degree courses without disadvantaging the student's foundation in core discipline units. While a normal exemption would comprise 96 credit points (Associate Diploma), in certain circumstances additional credit may be awarded.
- (iii) **Individual unit exemptions:** Where there is a close equivalence between TAFE.TEQ and QUT units and/or they have been prepared jointly, then the student will be given credit for individual units that fall outside those already credited in any block exemption.
- (iv) **Maximum recognition of previously completed learning:** A student should be given maximum recognition for prior learning. Credit should be given for all appropriate learning experiences.
- (v) **The adoption of flexible constructs for credit exemptions:** Flexible constructs should be adopted to ensure that the combined credit exemptions of unit blocks, individual units and recognition of prior learning are not reduced by a pre-determined ceiling. The only limiting factor in such arrangements is standard QUT policy regarding transfer of credit.
- (vi) **Joint use of resources:** Where appropriate and mutually beneficial, maximum utilisation of joint resources (human and physical) will be made in the development and delivery of courses.

- (vii) **Combined awards:** Where joint arrangements could provide more effectively for the flexibility and specialisations sought by industry, the development of combined awards will be encouraged.
- (viii) **New articulation and credit transfer arrangements:** Individuals or groups seeking to initiate any development that may lead to articulation and/or transfer of credit between TAFE.TEQ and QUT are to do so through the appropriate Associate Director (TAFE.TEQ) and Dean of Faculty (QUT).

1.2 Articulation of awards

The University considers that it is in the interest of students to facilitate their movement between courses of various types and levels. In developing new courses or revising existing courses, faculties are asked to pay particular attention to achieving close articulation between courses both within the University and between institutions/sectors (eg. QUT and TAFE.TEQ).

Specific articulation and credit transfer arrangements between levels of completed awards in related fields will normally be as follows.

☐ **Associate degree and Associate diploma awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

- (i) certificate – 24 credit points (0.5 semester),³ or
- (ii) advanced certificate – 48 credit points (1.0 semester).

☐ **Diploma awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

- (i) associate diploma – 144 credit points (3.0 semesters).

☐ **Bachelor degree awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

- (i) associate diploma – 96 credit points (2.0 semesters), or
- (ii) diploma – 192 credit points (4.0 semesters).

☐ **Graduate diploma awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

- (i) graduate certificate – 48 credit points (1.0 semester).

☐ **Two-year master degree awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

- (i) four-year bachelor degree at honours standard – 96 credit points (2.0 semesters), or
- (ii) honours – 96 credit points (2.0 semesters), or
- (iii) graduate certificate – 48 credit points (1.0 semester) or

³ All semester values refer to full-time or equivalent. QUT operates on standard length semesters of 48 credit points.

(iv) graduate diploma – 96 credit points (2.0 semesters).

□ **Professional doctorate awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

(i) master degree – 48 credit points (1.0 semester).

□ **Doctor of philosophy awards**

Upon entry to these awards, students will normally gain credit on the basis of the following:

(i) master degree – 48 credit points (1.0 semester).

Specific articulation and credit transfer arrangements between levels of awards in related fields on the basis of incomplete studies will normally be as follows:

□ **Master degree awards**

Students admitted to a doctoral research award or a professional doctorate award but who either do not qualify to progress to the award or do not wish to proceed may on application be transferred to a master degree award.

□ **Graduate diploma awards**

In specifically designed master/graduate diploma awards, students may be granted a graduate diploma on the basis of the following:

(i) master degree by coursework – satisfactory completion of at least 96 credit points (2.0 semesters)

if they either do not qualify or do not wish to proceed to the higher level award.

□ **Graduate certificate**

In specifically designed master/graduate diploma awards, students may be granted a graduate certificate on the basis of satisfactory completion of at least 48 credit points (1.0 semester) of units which constitute an approved graduate certificate program.

APPENDIX 3: Exclusion – designated units

Credit
Points

FACULTY OF ARTS

Bachelor of Arts (Dance)

AAB121	Contemporary Technique 1	16
AAB122	Contemporary Technique 2	16
AAB123	Classical Technique 1	16
AAB124	Classical Technique 2	16

Bachelor of Arts (Drama)

AAB203	Acting 2	12
AAB233	Voice & Movement 3	12
AAB234	Voice & Movement 4	12
AAB247	Acting 3	12

Bachelor of Arts (Music)

AAB562	Practical Studies A2	12
AAB571	Practical Studies A3	24

Bachelor of Arts (Visual Arts)

AAB702	Foundation Media Study 1	24
AAB703	Foundation Media Study 2	24
AAB707	Advanced Media Study 1	24
AAB708	Advanced Media Study 2	24
AAB709	Advanced Media Study 3	24
AAB710	Advanced Media Study 4	24

Bachelor of Social Science (Human Services)

SSB026	Fieldwork Practice 1	
SSB036	Fieldwork Practice 2	

Associate Degree in Dance/Associate Diploma in Dance

AAX111	Repertoire & Practice Period 1	12
AAX112	Repertoire & Practice Period 2	16
AAX113	Repertoire & Practice Period 3	16
AAX114	Repertoire & Practice Period 4	16
AAX117	Ballet Technique 1	8
AAX118	Ballet Technique 2	8
AAX119	Ballet Technique 3	8
AAX120	Ballet Technique 4	8
AAX121	Contemporary Technique 1	8
AAX122	Contemporary Technique 2	8
AAX123	Contemporary Technique 3	8
AAX124	Contemporary Technique 4	8

POLICY STATEMENTS

Access to Assessment Results

The University is committed to a policy of openness with respect to the release of assessment results. Effective from the date of commencement of the *Queensland Freedom of Information Act*, QUT policy on access to assessment results and/or marks is as follows:

- ☐ For units where percentage marks are calculated, students may request and obtain their own final marks from nominated officers in the relevant faculty.
- ☐ Faculty academic boards must make appropriate arrangements for students who request to peruse or to obtain a copy of their own examination scripts or written answers to examination questions or other forms of assessment, provided that the request is made within three months of the release of the examination results.
- ☐ Where examination question papers or other forms of assessment will be re-used in successive examinations, faculty academic boards must arrange for students to receive advice on their performance with reference to their own examination scripts in a way which does not prejudice the examination mode.

This policy will apply to examinations and other forms of assessment from second semester, 1992.

Assessment Provisions for Students with Disabilities

Students with permanent or temporary disabilities have the right to alternative arrangements, consistent with a commitment to academic excellence and equality of opportunity, to enable them to fulfil their course requirements.

Some alternatives

Disabilities may prevent or inhibit students from completing certain unit requirements, such as performing particular skills; writing assignments, test papers or examinations; or executing physical or laboratory tasks.

Suggested variations in assessment techniques for students with disabilities are listed below. Issues of validity, reliability and equity, together with ease of marking, should be taken into account when adopting such alternatives.

Variations

Examples

Mode

Questioning modality

Brailled or audiotaped questions, viva voce testing, signing interpreter etc.

Response modality

Oral rather than written answers – recorded on tape, viva voce, signing etc.

Context

Time

Extended period to answer examination, respite breaks during an examination, extra time to complete assignments, deferment without penalty etc.

Equipment	Tape recorder, braille, print magnifier electric typewriter, special desk for wheelchair, adapted laboratory equipment etc.
Separate examination room	Special equipment, personal assistance (to avoid disturbing others)
Personal assistance	Amanuensis, reader, interpreter, aide.

Such alternative approaches to assessment need to be carefully considered before implementation to ensure undue over- or under-compensation does not occur. A brochure, *Assessment Procedures for Students with Disabilities*, explains the advantages and disadvantages of such alternatives and is available from campus counsellors.

Responsibilities

Students should make their needs known to relevant lecturers early in the semester.

To support their request for special consideration, students may be required to present a certificate from a medical or other specialist practitioner (eg. psychologist) which substantiates the nature of the special need. Appropriate documentation can be sighted and supported by a counsellor who provides referral to the relevant course coordinator, faculty or school.

Alternative forms of assessment are usually negotiated between student and lecturer, but advice can be sought from the course coordinator or counselling service as needed.

Lecturers or course coordinators should notify the Student Administration section of any special examination requirements, including the level of expertise allowable in any assistant (amanuensis, interpreter, aide) who may be required, so that the student is neither advantaged nor disadvantaged in comparison with other students. Students are to be given adequate lead time prior to an assessment item to gain working familiarity with such assistants. Lecturers should also notify the library of particular equipment needs.

For centrally organised assessment items, responsibility for the conduct and administration of alternative assessment provisions for students with disabilities rests with Student Administration. Unless negotiated otherwise by lecturer and student, responsibility for employing an amanuensis or interpreter as well as providing special equipment, settings and supervision will rest with the Examination Officer. Costs of employing supervisors, personal assistants and providing examination materials (eg. blank audio-cassettes; brailled examination papers) are to be borne by the Student Administration section. A record of requests and adaptations made will be retained for review purposes.

For other assessment, responsibility primarily rests with faculties and schools. **The scope and funding of support services for such assessment is currently under review.**

Awards with Honours

This policy does not deal with honours programs which are end-on to a bachelor degree course.

In degree courses of four or more years, a degree with honours may be awarded to students who have recorded outstanding achievement in the four-year program.

First class honours, second class honours division A and second class honours division B may be awarded. Candidates for a degree with honours must fulfil the requirements for a pass degree and achieve a standard of proficiency in all course units as may from time to time be determined by the relevant faculty academic board and approved by University Academic Board.

Honours are awarded:

- ☐ to indicate that students may appropriately proceed to higher degrees
- ☐ to encourage students to work consistently throughout a course
- ☐ to ensure that QUT students can apply equally for employment in competition with honours graduates from other institutions
- ☐ to ensure that QUT graduates are eligible for the same level of salary on commencement as graduates from other institutions
- ☐ to enable QUT graduates to compete equally for scholarships.

A degree with honours will not be registered for programs of less than four years' duration.

Honours are presently awarded in the degree courses in Architecture, Engineering, Law and Optometry.

Faculty academic boards make recommendation to University Academic Board, supplying the following information:

- ☐ the level of academic achievement necessary to qualify for each grade of honours as per faculty criteria
- ☐ the actual results for each of the recommended candidates viz. the number of high distinctions, distinctions (or honours pre-1985), credits and passes
- ☐ the cumulative proportion of graduates represented in honours groups since the introduction of honours in the course and, for Engineering, cumulative percentages for each class of honours for civil, electrical and mechanical engineering graduates.

Student Administration Department will provide University Academic Board with the grade point average for each of the recommended candidates.

Equal Opportunity Policy

The Council of the Queensland University of Technology is committed to a policy of equal opportunity and freedom from all forms of discrimination as determined by legislation or by Council. The policy is issued on the basis that it is fair and just and contributes to the fulfilment of QUT's Missions and Goals.

In fulfilling this policy, the University aims to

- ☐ promote the development of a University culture supportive of equity principles
- ☐ ensure all of its management and educational policies and practices reflect and respect the social and cultural diversity contained within the University and the community it serves
- ☐ ensure that the appointment and advancement of staff and admission and progression of students within QUT are determined on the basis of merit
- ☐ provide equal employment and educational opportunities within QUT and identify and remove barriers to participation and progression in employment and education, and implement an Affirmative Action Program for equity groups
- ☐ eliminate unlawful discrimination against staff and students on the grounds of sex; marital status; pregnancy; breastfeeding; race; age; parenthood; physical, intellectual and mental impairment; religious belief; lawful sexual activity; trade union activity; criminal record; social origin; medical record; nationality; or political belief or activity

- comply with State and Federal legislation on Discrimination, Equal Opportunity and Affirmative Action and binding international human rights instruments.

The Vice-Chancellor, through the Pro-Vice-Chancellor (Academic) and the management of the University, is responsible for implementation of this policy. The Pro-Vice-Chancellor (Academic) is assisted by the Equity Coordinator.

QUT expects all staff, students and members of the University community to act in accordance with this policy.

Non-Discriminatory Presentation and Practice

Queensland University of Technology endorses a policy of non-discriminatory presentation and practice in all administrative and academic activities of the University.

Accordingly, the University will:

- actively promote the use of non-discriminatory language and presentation in all QUT documents and publications and non-discriminatory teaching practice in classrooms
- put in place a procedure for setting complaints and grievances about discriminatory language, presentation, and teaching practices
- make all staff aware of their responsibilities under the policy and of the existence of a complaints procedure, and circulate suitable educational material to assist staff to comply
- require that in the development of guidelines and teaching activities for students, staff encourage students to comply with the policy.

Heads of school are responsible for implementing and monitoring the policy, and for responding to complaints.

Staff or students with complaints or concerns regarding discriminatory practices should approach their head of school or, if preferred:

- the Equity Officer
- any member of Women in QUT within their faculty/school
- the Women's Services Officer of the Student Guild.

Sexual and Gender Based Harassment Policy

QUT has adopted a Policy on Equal Opportunity to reflect its commitment to equal opportunity and freedom from all forms of discrimination in education and employment, as determined by legislation or by Council.

QUT recognises the right of all students and staff to work and/or study in an environment free from sexual and gender-based harassment. Sexual harassment and discrimination on the basis of sex are unlawful and unacceptable within the University.

The University acknowledges its responsibility to ensure that staff, students, and members of the university community are made aware of what constitutes unacceptable behaviour within the University and that all managers and supervisors are aware of their responsibility for ensuring the maintenance of proper standards of conduct within the University.

The University recognises also its responsibility to take prompt and effective action to deal with complaints of sexual and gender-based harassment and to ensure that all people

involved in the complaint, including the complainant, the person complained about and witnesses are treated fairly. The university will do everything in its power to ensure that people are not victimised in any way. It also recognises the responsibility of managers to take a pro-active role in dealing with any manifestations of sexual and gender-based harassment in accordance with this policy.

What is Harassment?

Harassment is a form of discrimination. It is offensive social behaviour which occurs particularly in staff/student or employer/employee relationships where there is a relationship of power and/or authority of one person over another.

The University recognises however that the work or study environment may also be adversely affected by sexual or gender-based harassment by peers (student/student or employee/employee) and will not tolerate such behaviour. Similarly, the University will not tolerate harassment of staff by students nor harassment by staff or students of visitors or members of the public whilst engaged in University activities.

Behaviour that is regarded as harmless, trivial or a joke may constitute sexual or gender-based harassment, where personally offensive, humiliating or distressing to the recipient.

Sexual Harassment

Sexual harassment is any form of offensive sexual attention that is uninvited and unwelcomed. It can be a single incident or a persistent pattern of unwelcomed behaviour and it should be noted that the distress can be the same whether the conduct is intentional or unintentional. Although a majority of complaints of sexual harassment come from women, sexual harassment is not confined to any gender or sexuality. Sexual harassment can range from subtle behaviour to explicit demands for sexual activity or even criminal assault and includes the following:

- ☐ inappropriate remarks with sexual connotations
- ☐ smutty sexual jokes
- ☐ the display of offensive material
- ☐ stares and leers or offensive hand or body gestures
- ☐ inappropriate posturing
- ☐ comments and questions about another person's sexual conduct and/or private relationships
- ☐ persistent unwelcome invitations
- ☐ requests for sexual favours
- ☐ offensive written, telephone or electronic mail or other computer system communications
- ☐ unnecessary close physical proximity including persistently following a person
- ☐ unwelcome physical conduct such as brushing against or touching a person
- ☐ actual molestation
- ☐ sexual assault.

Gender-Based Harassment

Gender-based harassment is any conduct that is unwelcome because it denigrates a person on the basis of their gender. It can be a single incident or a persistent pattern of unwanted behaviour and constitutes unlawful discrimination if it can be shown that the person being harassed is being treated unfavourably on the basis of her or his sex. The term covers a range of behaviour which in its context amounts to harassment including:

- ☐ denigrating comments regarding a person's gender
- ☐ the display of written or pictorial material that denigrates a person's gender
- ☐ negative behaviours, eg bullying, intimidation or exclusion related to the gender of the recipient
- ☐ expressing stereotyping, that is assumptions based on gender about an individual's gender, group behaviour, values, culture or ability.

Information on Harassment

QUT has procedures designed for dealing with complaints of sexual or gender-based harassment.

There is also a network of trained Sexual Harassment Contact Officers who can advise and assist people interested in making a complaint.

Information on the policy and procedures and/or the Sexual Harassment Contact Officers are available from the Equity Section.

Equity Coordinator
Room U333
U Block
Gardens Point Campus
Ph.: 07 864 2115

Equity Officer
Room 214
K Block
Kelvin Grove Campus
Ph.: 07 864 3652

REPLACEMENT AND SUBSTITUTE AWARD CERTIFICATES

A 'replacement' certificate is a replacement for a certificate issued originally by the Queensland University of Technology.

A 'substitute' certificate is a substitute for a certificate issued originally by antecedents of Queensland University of Technology (including Brisbane College of Advanced Education, Brisbane Kindergarten Teachers' College, Kedron Park Teachers' College, Kelvin Grove Teachers' College, Kelvin Grove College of Teacher Education, Kelvin Grove College of Advanced Education, North Brisbane College of Advanced Education, Queensland Institute of Technology, [Queensland] Teachers' College and the [Queensland] Teachers' Training College).

Substitute certificates will not be issued for certificates issued originally by the Queensland Department of Education or other bodies not currently associated with higher education.

Fees for replacement or substitution

Replacement certificates will be issued free of charge where the original was lost or damaged in transmission or was defective. A fee of \$40 will be charged in all other cases.

A fee of \$40 will be charged in respect of substitute certificates.

Conditions of replacement or substitution

Both replacement and substitute certificates will be issued subject to the following conditions:

- ☐ where the original certificate has been lost in transmission or subsequently, a statutory declaration is submitted to that effect
- ☐ where the original certificate was defective or has been damaged, the certificate is returned
- ☐ payment of the prescribed fee, where applicable.

Form of certificates

All replacement and substitute certificates will be produced on QUT proforma, and, except where a replica is issued as a replacement, will be produced using the proforma current at the time of issue of the replacement or substitute, and incorporate the signatures of the incumbent Chancellor, Vice-Chancellor, and Registrar.

The student's name on the replacement and substitute certificates will be the same as on the original certificate. Certificates will not normally be re-issued on account of a change of name. In exceptional circumstances the Registrar may approve variations to the application of this policy.

Endorsements

Replacement certificates

Replacement certificates will carry no endorsement where the original certificate can be

replicated in every respect. The University cannot guarantee to provide replicas in every instance.

However, where there has been any change in the proforma itself, the Common Seal, or the signatories, and no stock of the original is available, a replacement certificate will be endorsed as follows:

“ This is a replacement for a certificate issued under the Common Seal on (day, month, year appearing on original certificate)(under the name of [name appearing on original certificate]).”

Substitute certificates

Substitute certificates will carry, as appropriate, one of the following endorsements in every case:

“ This is a substitute for a certificate, (number – if known), issued on (date, month, year, appearing on original certificate) by (institution), (under the name of [name appearing on original certificate]) which was incorporated into Queensland University of Technology on 1 May1990.”

or

“ This is a substitute for a certificate issued on (date, month, year appearing on original certificate)(under the name of [name appearing on original certificate]) by Queensland Institute of Technology which became Queensland University of Technology on 1 January 1989.”

3

Academic Programs

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UNIVERSITY-WIDE AND INTERFACULTY COURSES

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UNIVERSITY-WIDE AND INTERFACULTY COURSES

Course Structures

■ Doctor of Philosophy (IF49)

Introduction

The main purpose of graduate study is to encourage independence and originality of thought in the quest for knowledge. The Doctor of Philosophy degree is awarded in recognition of a student's erudition in a broad field of learning and for notable accomplishment in that field through an original and substantial contribution to knowledge. The candidate's research must reveal high critical ability and powers of imagination and synthesis, and may be in the form of new knowledge, or of significant and original adaptation, application and interpretation of existing knowledge.

1. General Conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act.

1.2 This document sets out the Regulations governing the award of the degree of PhD.

1.3 The Council's power to approve arrangements for the registration and examination of candidates for the degree of PhD is exercised through a Research Management Committee, which shall be a subcommittee of Academic Committee. In exercising this power, the Research Management Committee shall be advised by faculty academic boards, deans of faculty and heads of school, as appropriate.

1.4 In order to qualify for the award of the degree of PhD, a candidate must submit to the Research Management Committee:

- ☐ a certificate of satisfactory completion of the candidate's approved course of study signed by the Principal Supervisor
- ☐ a declaration signed by the candidate that he or she has not been a candidate for another tertiary award without permission of the Research Management Committee
- ☐ a certificate recommending acceptance of the thesis in fulfilment of the conditions for the award of the PhD degree signed by each member of the faculty panel that recommended examination of the thesis and the Examination Committee which accepted it
- ☐ an application for conferral of the degree, and
- ☐ four copies of the thesis in the required format.

2. Registration

2.1 A candidate may register either as a full-time or as a part-time student (see also Section 4). To be registered as a full-time student, a candidate must be able to commit to the course not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a student may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.1.1 A candidate who is unable to devote to the course the proportion of time specified in Section 2.1 may register as a part-time student.

2.1.2 A candidate's program of research or other approved investigation may be based at a place of employment or a sponsoring institution (see Section 7). Normally, support of the sponsoring establishment for the candidate's application is required for registration.

2.1.3 A sponsoring establishment is required to certify annually by 31 December that all registered PhD candidates sponsored by that organisation are actively engaged in their course of study, and are maintaining frequent contact with their local supervisor.

2.2 To gain registration in a course of study leading to the award of a Doctor of Philosophy, a candidate normally shall hold a relevant first class or second class division A honours degree or an appropriate master degree (by coursework or by thesis) of the QUT or of another recognised institution.

2.3 Before accepting an application for registration, the Research Management Committee must satisfy itself that the candidate has sufficient command of English to complete satisfactorily the proposed course of study, to pass an oral examination in English as described in Section 9.2, and to prepare a thesis in English.

2.4 Without the specific permission of the Research Management Committee, students may not be registered as candidates for a PhD degree if they are registered candidates for another tertiary award.

2.5 The Research Management Committee may cancel a candidate's registration if:

- ☐ after consulting a candidate's supervisors and having taken account of all relevant circumstances, the committee is of the opinion that the candidate either has effectively discontinued their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4), or
- ☐ the candidate's grade point average in coursework undertaken is below 5.0 on a 7 point scale.

2.6 A student whose registration has lapsed or has been cancelled and who wishes subsequently to re-enter the course of study to pursue an investigation which is substantially the same as their previous investigation may be re-admitted under such conditions as the Research Management Committee shall prescribe.

3. Course of Study

3.1 A candidate for the degree of Doctor of Philosophy is required to complete successfully a course of study which results in a substantial contribution to knowledge. This contribution may be in the form of new knowledge, or of significant and original adaptation, application and interpretation of existing knowledge.

3.2 The course of study normally will include:

- ☐ a program of assessed coursework
- ☐ participation in university scholarly activities such as research seminars, teaching and publication
- ☐ regular face-to-face interaction with supervisors, and
- ☐ a program of supervised research and investigation.

The course of study must be such as to enable the candidate to acquire competence in relevant methods of research and scholarship related to the subject of the proposed investigation, and to display sustained independent effort.

3.3 Coursework at doctoral level demands a capacity for critical analysis and a specialisation

of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ❑ as advanced lecture courses
- ❑ as seminars in which faculty and students present critical studies of selected problems within the subject field
- ❑ as independent study or reading courses, or
- ❑ as research projects conducted under faculty supervision.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.4 Coursework will occupy not more than half of the total period of registration (see Section 4).

3.5 An application for registration should set out systematically and fully the candidate's intended course of study. The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the nature of participation in scholarly activities of the centre, school or faculty in which the study is being undertaken, the objectives of the proposed program of research and investigation, its relationship to previous work in the same field, the research methods to be followed, and the proposed title of the thesis to be written.

3.6 A candidate is normally expected to pursue the approved program of research and investigation throughout the period of registration. Where circumstances make modification or extension of the program desirable, approval for the proposed change must be sought in writing from the Research Management Committee. Permission to maintain the candidate's registration may be given by the committee in such circumstances, provided that the course of study remains in the same field.

3.7 Where a candidate's approved program of research and investigation forms part of a group project, the application must indicate clearly the individual contribution expected to be made by the candidate, and the extent to which the work is to be carried out in collaboration with others (see also Section 8.4).

3.8 Where an approved program of research and investigation is carried out jointly in QUT and in an industrial, commercial, professional or research establishment, the nature of the work to be carried out in each need not be prescribed in detail initially, but a clear indication must be provided of the way in which the work that the candidate is likely to undertake in the collaborating establishment relates to work to be undertaken at QUT or elsewhere.

3.9 In appropriate cases, the Research Management Committee may approve a course of study leading to the presentation of a thesis accompanied by material in other than written form, or exceptionally, in lieu of a research program, a program of scholarly postgraduate work concerned with significant aspects of industrial, commercial or professional activity. Such approval must be sought from the Research Management Committee at the time of application for registration or when approval to modify the course of study is sought. At the same time, arrangements for the examination of such candidates should be proposed for approval by the Research Management Committee, including details of the form which the candidate's presentation is expected to take.

4. Period of Time for Completion of Course of Study

4.1 A full-time candidate who does not hold a masters degree appropriate to the course of study will normally be required to complete a period of registration of at least 30 months before submitting the thesis for examination. The corresponding period in the case of a

part-time candidate shall be 42 months. In special cases the Research Management Committee may approve a shorter period.

4.2 A holder of a masters degree appropriate to the course of study may submit the thesis for examination after not less than 24 months of registration if a full-time student, or 36 months if a part-time student. In special cases the Research Management Committee may approve a shorter period.

4.3 Without the permission of the Research Management Committee, no full-time candidate for the degree of PhD shall submit a thesis for examination more than 48 months from the date on which registration in the program was granted. The corresponding period in the case of a part-time candidate shall be 60 months.

4.4 Where a candidate wishes to change from full-time to part-time registration or vice versa, application must be made in writing to the Research Management Committee. All such applications must specify the revised date of expected completion.

4.5 Where application is made for permission to extend the period within which the candidate may submit a thesis for examination, details of the candidate's progress shall be presented to the Research Management Committee, together with the reasons for the delay in completing the course and the expected date of completion. Where the committee agrees to an extension, it may set a limit to the maximum period of registration in the PhD program.

5. Transfer of Registration

5.1 Where a candidate has undertaken part of a proposed course of study as a registered student in another institution, this period of registration may, on application in writing to the Research Management Committee at the time of application for registration, be counted towards the candidate's period of registration in the QUT course. The application must include details of the work already undertaken, the reasons for the transfer and the expected date of completion.

5.2 A candidate registered for a masters degree at QUT or elsewhere may apply for transfer to the PhD degree.

5.3 Application for transfer of registration from a masters degree must be made on the prescribed form and normally may be made after at least 12 months registration in the masters degree. The candidate shall prepare for the Research Management Committee a detailed progress report, and the committee shall seek the advice of the candidate's supervisors. Where coursework has been undertaken as part of the masters degree, a transfer normally may be approved only if the candidate has attained a grade point average of at least 5.0 on a 7 point scale.

5.4 Applications for transfer normally should be submitted at least 24 months in advance of the probable date of submission of the PhD thesis.

5.5 The registration period for the PhD shall include such prior registration approved by the Research Management Committee.

5.6 The periods of minimum and maximum time for presentation of the thesis shall be extended by eight months for candidates who were admitted to a masters degree from a pass degree.

5.7 A candidate registered for the degree of PhD who is unable to complete the approved course of study may apply for transfer to an appropriate masters degree.

6. Supervision

6.1 Normally two supervisors shall be appointed for each PhD candidate.

6.2 One supervisor shall be the Principal Supervisor, with responsibility for supervising the candidate on a frequent basis. The Principal Supervisor shall be a member of QUT staff. A Principal Supervisor normally shall have undertaken the successful supervision of research degree candidates. Where a Principal Supervisor is proposed who has not undertaken such supervision, an associate supervisor (see Section 6.3) should have had such experience.

6.3 An associate supervisor may be appointed either from QUT or from elsewhere. Where appropriate, more than one associate supervisor may be appointed. The Research Management Committee may approve the appointment as associate supervisor of a person without experience sufficient to satisfy appointment as a Principal Supervisor. Where collaboration has been arranged between QUT and another organisation, the latter is expected to recommend to the committee a member of its staff as an associate supervisor.

6.4 The Research Management Committee must be satisfied regarding the qualifications and experience of all proposed supervisors.

6.5 The Principal Supervisor is required to report every six months to the Research Management Committee on progress made by the candidate. Each progress report is to be sighted by the candidate and submitted through the Head of School.

7. Place and Conditions of Work

7.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

7.2 The Research Management Committee must be satisfied that arrangements as set out in these regulations regarding coursework, participation in scholarly activities, supervision, facilities and training in research methods may be made for the candidate, and that accommodation, equipment and access to library and computing facilities meet the needs of the approved course of study.

8. Thesis

8.1 The thesis must be presented in accordance with the requirements of the Council, including any accompanying declarations (see Section 1).

8.2 Except with the specific permission of the Research Management Committee, the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the Examination Committee will be affected adversely by the requirement to present the thesis in English.

8.3 The thesis must include a statement of the objectives of the investigation, and must acknowledge published or other sources of information, together with any substantial financial assistance received.

8.4 Where a candidate's research program forms part of a collaborative group project, the thesis must indicate clearly the candidate's individual contribution and the extent to which co-workers contributed to the candidate's program.

8.5 Subject to QUT's intellectual property policy, the copyright of the thesis is vested in the candidate.

8.6 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the Examination Committee recommends acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

9. Examinations

9.1 Any fees payable in relation to the examination of a candidate shall be determined by the Council.

9.2 In order to determine whether the thesis is acceptable for examination by the Examination Committee, and subject to the provisions of Section 9.3, the candidate shall be examined orally by the faculty to which they are attached. The examination will be based on:

- ☐ the work described in the thesis, and
- ☐ the field of study in which the investigation lies.

The faculty shall advertise or otherwise arrange for the oral examination which should be attended by all available members of the Examination Committee. The examination shall be conducted by a panel of three nominated by the faculty and chaired by the Principal Supervisor. Sufficient copies of the thesis, bound in temporary cover, must be presented to the Chairperson of the faculty examining panel so as to provide a copy for each member of the panel and each attending member of the Examination Committee. The faculty examining panel shall use the prescribed form when advising the faculty and the Research Management Committee that the thesis meets with their approval.

9.3 Where for good and sufficient reasons the Research Management Committee is satisfied that a candidate would be seriously disadvantaged if required to undergo an oral examination, an alternative form of examination may be approved. Such approval shall not be given solely on the grounds that the candidate's knowledge of the English language is inadequate (see Section 2.3).

9.4 The thesis shall normally be examined by an Examination Committee comprising at least two external examiners and not more than one internal examiner. The internal examiner normally shall chair the committee. If there is no internal examiner, then the Research Management Committee shall appoint a chairperson.

9.5 Subject to agreement between supervisors and not later than six months before the proposed date for the submission of the thesis, the Principal Supervisor is required to recommend to the Research Management Committee the composition of a proposed Examination Committee, together with the title of the candidate's thesis.

9.6 Four copies of the thesis in the required format must be presented to the Research Management Committee together with certification that the approved course of study has been completed and the thesis accepted by the faculty to which the candidate is attached (see Section 9.2). Receipt of the thesis by the Research Management Committee shall constitute the submission of the candidate's thesis for examination.

9.7 The candidate's Principal Supervisor shall forward arrangements for examination of the thesis through the faculty to the Research Management Committee for approval.

9.8 In exceptional circumstances, the Research Management Committee may act directly to make suitable arrangements for the examination of a candidate, including the selection of examiners.

9.9 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.

9.10 The external examiners must be independent of both the University and the sponsoring establishment, if any.

9.11 External examiners should normally have substantial research experience in the area under investigation. At least one external examiner must also have had experience of examining research degree candidates at the doctoral level.

9.12 The internal examiner, if any, may be an associate supervisor.

9.13 The internal examiner must have experience of research in the general field under investigation and, where practicable, should have specialist knowledge of the area in which the investigation was conducted.

9.14 The Research Management Committee shall provide the examiners with a copy of the thesis and of the Council's PhD Regulations, and with any other relevant information.

9.15 When the examiners are in agreement with respect to the thesis, the Chairperson shall transmit the result of the examination on the prescribed form to the Chairperson of the Research Management Committee. The examiners' report shall recommend:

- (i) that the degree be awarded, with or without minor modifications to the thesis, or
- (ii) that the candidate be re-examined, or
- (iii) that the degree not be awarded.

When the recommendation is that the degree be awarded, the Chairperson must return an Examiners' Report together with a certificate signed by each examiner recommending acceptance of the thesis in fulfillment of the conditions for the award of the PhD degree. A copy of the thesis, together with the certification by the faculty examiners and the Examination Committee will then be lodged in the QUT Library. A copy will be sent at the same time to the sponsoring establishment, if any.

9.16 If the examiners cannot reach agreement, they shall submit separate reports and recommendations to the Research Management Committee. The committee may then:

- (i) not award the degree, or
- (ii) accept a majority recommendation with or without the advice of a further external examiner.

9.17 A candidate who fails to satisfy the Research Management Committee at the first attempt may, on the recommendation of the examiners and with the approval of the Research Management Committee, be re-examined not more than once. Application must be made to the Research Management Committee for approval of the re-examination arrangements.

9.18 Re-examination shall take place within 12 months from the date on which the candidate is advised in writing of such re-examination. The Research Management Committee may, on application by the candidate and supported by the Principal Supervisor, approve an extension of this period.

9.19 The examiners must give the candidate guidance on the deficiencies identified by the first examination.

9.20 The Research Management Committee may require that an additional external examiner be appointed for the re-examination.

9.21 Regulations applicable to examinations generally shall apply to the re-examination.

9.22 The examiners may recommend that a candidate who has been examined for the degree of PhD be awarded the degree of Master, provided that the candidate meets or can meet the requirements of a Master's program.

■ Master of Applied Science (Research)

This research program is available in:

- ☐ the Faculty of Health (HL84) (Refer also to entry in the Faculty of Health section.)
- ☐ the Faculty of Information Technology (IT84) (Refer also to entry in the Faculty of Information Technology section.)

- ☐ the Faculty of Science (SC80) (Refer also to entry in the Faculty of Science section.)

Introduction

The objectives of the course are:

- ☐ to provide postgraduate educational opportunities in specialised fields of applied science and information technology by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge
- ☐ to provide further education in research methods
- ☐ to enable graduates employed in industry to undertake further education by research and thesis
- ☐ to enable industrial organisations and other external agencies to sponsor a student research program under the control and supervision of the faculty
- ☐ to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

1. General Conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act 1988.

1.2 The Council's power to approve recommendations from faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedure relating to research degrees is exercised through a Research Management Committee which shall be a subcommittee of Academic Committee.

1.3 Research Management Committee has delegated responsibility for day-to-day administration of research master degree courses to faculty academic boards. Academic boards shall report biannually to the Research Management Committee on progress made by research master degree candidates.

1.4 Unless the context otherwise indicates or requires, the words 'academic board' and 'faculty' shall refer to the faculty in which the candidate registers.

1.5 In order to qualify for the award of the degree of Master of Applied Science, a candidate must:

- ☐ have completed the approved course of study under the supervision prescribed by the academic board
- ☐ have submitted and the academic board accepted a thesis prepared under the supervision of the supervisor
- ☐ have completed any other work prescribed by the academic board, and
- ☐ submit to the academic board a declaration signed by the candidate that he/she has not been a candidate for another tertiary award without permission of the academic board.

2. Registration

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 The minimum academic qualifications for admission to a program leading to a Master of Applied Science (Research) shall be:

- ☐ possession of a bachelor degree in information technology, health science, applied science or other approved degree from the Queensland University of Technology, or
- ☐ possession of an equivalent qualification, or
- ☐ submission of such other evidence of qualifications as will satisfy the academic board that the applicant possesses the capacity to pursue the course of study.

2.4 Additional requirements for admission to a particular program may be laid down by the academic board.

2.5 In considering an applicant for registration the academic board shall, in addition to assessing the applicant's suitability, assess the proposed program and its relevance to the aims and objectives of the University.

2.6 A candidate may register either as a full-time or as a part-time student. To be registered as a full-time student, a candidate must be able to commit to the course not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a student may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.7 A candidate may be internal or external. An external candidate is one whose program of research and investigation is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.8 A candidate shall be registered initially as:

- ☐ a graduate student (provisional), or
- ☐ a graduate student.

A graduate student (provisional) becomes a graduate student when registration is confirmed. Applicants not holding an appropriate honours degree or its equivalent shall normally be given provisional registration.

2.9 A candidate shall receive confirmed registration as a graduate student when he or she:

- ☐ has satisfied the requirements for admission and achieved by work and study a standard recognised by the academic board, or
- ☐ has been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the academic board
- ☐ has satisfied the academic board that he or she is a fit person to undertake the program
- ☐ has satisfied the academic board that he or she can devote sufficient time to the research and study.

2.10 The academic board may cancel a candidate's registration if:

- ☐ after consulting a candidate's supervisors and having taken account of all relevant circumstances, the academic board is of the opinion that the candidate either has effectively discontinued his or her studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.11 A candidate whose registration has lapsed or has been cancelled and who wishes subsequently to re-enter the course to undertake a research program which is the same or essentially the same as the previous program may be re-admitted under such conditions as the academic board may prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Applied Science shall undertake a program of research and investigation on a topic approved by the academic board. All projects should be sponsored either by outside agencies such as industry, government authorities, or professional organisations, or by the University itself.

3.2 The program must be such as to enable the candidate to develop and demonstrate a level of scientific competence significantly higher than that expected of a first degree graduate. The required competence normally would include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist area.

3.3 A candidate may be required by the academic board to undertake an appropriate course of study concurrently with the research program.

The course of study normally will include:

- ☐ a program of assessed coursework
- ☐ participation in University scholarly activities such as research seminars, teaching and publication
- ☐ regular face-to-face interaction with supervisors, and
- ☐ a program of supervised research and investigation.

3.4 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ☐ as advanced lecture courses
- ☐ as seminars in which faculty and students present critical studies of selected problems within the subject field
- ☐ as independent study or reading courses, or
- ☐ as research projects conducted under faculty supervision.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.5 Coursework will occupy not more than half of the total period of registration.

3.6 An application for registration should set out systematically and fully the candidate's intended course of study. The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan.

4. Period of Time for Completion of Course of Study

4.1 A full-time graduate student (provisional) shall not be eligible for confirmation of registration as a graduate student until a period of at least 12 months has elapsed from initial registration. The corresponding period in the case of a part-time student shall be at least 24 months.

4.2 A registered graduate student shall present the thesis for examination after a period of at least one year for a full-time student or two years for a part-time student has elapsed from the time of confirmed registration, except in the case of special permission granted under 4.4. In special cases the academic board may approve a shorter period.

4.3 A registered graduate student shall present the thesis for examination no later than two years if a full-time student or four years if a part-time student from the date of confirmed registration.

4.4 A registered graduate student who holds an honours degree appropriate to the course of study may submit the thesis for examination after not less than one year of registration if a full-time student, or two years if a part-time student. In special cases the academic board may approve a shorter period.

4.5 Where application is made for permission to extend the period within which the candidate may submit a thesis for examination, details of the candidate's progress shall be presented to the academic board together with the reasons for the delay in completing the course and the expected date of completion. Where the academic board agrees to an extension, it may set a limit to the maximum period of registration in the program.

5. Supervision

5.1 For each candidate the academic board shall appoint one or more supervisors with appropriate experience provided that, where more than one supervisor is appointed, one shall be nominated as the Principal Supervisor and others as associate supervisors.

5.2 In the case of an internal student, the Principal Supervisor normally shall be from the academic staff of the school where the student carries out the work.

5.3 In the case of an external student, the Principal Supervisor normally shall be from the academic staff of the school supporting the work and at least one associate supervisor shall be from the sponsoring organisation.

5.4 At the end of each six-month period a student shall submit a report on the work undertaken to the Principal Supervisor and the Principal Supervisor shall submit a report to the academic board on the student's work. This report shall be seen by the student before submission to the academic board.

6. Place and Conditions of Work

6.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

6.2 The academic board shall not admit a candidate to undertake a program of research based at the University unless it has received a statement from the head of school and/or director of centre in which the study is proposed that, in his/her opinion, the applicant is a fit person to undertake a research program leading to the master degree, that the program is supported, and that the school/department is willing to undertake the responsibility of supervising the applicant's work.

6.3 The academic board shall not admit a candidate to undertake a research program based at a sponsoring establishment unless it has received:

- ☐ a statement from the employer or director of the sponsoring institution that the applicant will be provided with facilities to undertake the research project and that he/she is willing to accept responsibility for supervising the applicant's work, and
- ☐ a statement from the head of school or director of centre in which the study is proposed that, in his or her opinion, the applicant is a fit person to undertake a research program leading to the master degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school/department is willing to accept the responsibility of supervising the work.

7. Thesis

7.1 In the form of presentation, availability and copyright, the thesis shall comply with the provisions of the document *Requirements for Presenting Theses*.

7.2 Not later than six months after confirmed registration the candidate shall submit the title of the thesis for approval by the academic board. After approval has been granted, no change shall be made except with the permission of the academic board.

7.3 The candidate shall give two months' notice of intention to submit the thesis. Such notice shall be accompanied by the appropriate fee, if any.

7.4 The thesis shall comply with the following requirements:

- ☐ A significant portion of the work described must have been carried out subsequent to initial registration for the degree.
- ☐ It must describe a program of work carried out by the candidate, and must involve either an original contribution to knowledge or an original application of existing knowledge.
- ☐ It must reach a satisfactory standard of literary presentation.
- ☐ It shall be the candidate's own account of the work. Where work is carried out conjointly with other persons, the academic board shall be advised of the extent of the candidate's contribution to the joint work.
- ☐ The thesis shall not contain as its main content any work or material which the student has previously submitted for another degree or similar award.
- ☐ Supporting documents, such as published papers, may be submitted with the thesis if they have a bearing on the subject of the thesis.
- ☐ The thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the academic board, the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.

7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.

7.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

8. Examination of Thesis

8.1 The academic board shall appoint at least two examiners of whom at least one shall be from outside the University.

8.2 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.

8.3 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of satisfactory reports from the examiners, and when the provisions of Section 7.1 have been fulfilled, the academic board shall recommend to Academic Committee that the candidate be awarded the degree.

8.5 If the examiners' reports are conflicting, the academic board may, after appropriate consultation with the Principal Supervisor:

- ☐ seek advice from a further external examiner, or

- ☐ not award the degree.

8.6 If, on the basis of the examiners' reports, the academic board does not recommend that the degree be awarded then it shall:

- ☐ permit the candidate to resubmit the thesis within one year for re-examination, or
- ☐ cancel the candidate's registration.

■ Master of Public Policy (IF64)

Location: Gardens Point campus. (Elective units may be offered on other campuses.)

Course Duration: 1½ years full-time, 3 years part-time

Total Credit Points: 144

Course Coordinator: Dr Peter Carroll

This degree is administered by the School of Economics and Public Policy in the Faculty of Business, with the participation of the faculties of Arts, Built Environment and Engineering, Education, Health, Information Technology, Law, and Science.

The normal duration of the course is three semesters for full-time students. The third semester is devoted to the dissertation, which may be undertaken in a summer semester, enabling the course to be completed in one calendar year. The normal duration for part-time students is six semesters. If the dissertation is undertaken over two summer semesters, the course may be completed, part-time, in two calendar years.

Entry Requirements

Applicants for admission to candidature for the degree of Master of Public Policy normally should have at least two years relevant professional experience, and a Bachelor's degree, or equivalent, with a grade point average of 5 or above.

Alternatively, candidates who produce evidence of other qualifications and experience which are considered by the Dean to qualify the candidate for admission may be accepted.

Course Structure

The program structure is divided into two parts. The first part is composed of the eight units, as specified below. The second part consists of the dissertation with a weight of 48 credit points. Each unit will normally have a credit value of 12 points, though, at the discretion of the Course Coordinator, provision can be made for units with a credit value of more or less than 12 credit points provided the total of credit points for coursework units is 96.

The taught units comprise a common core of five units, totalling 60 credit points, plus 36 credit points of applied policy electives selected from an approved list of units, for a total of 96 credit points. Elective, applied policy units will be available from faculties and schools participating in the program.

The initial list of elective units is provided below, grouped into policy specialisations. The list of units available will vary over time as schools add and delete relevant units, depending upon demand. As noted above, students must do 36 credit points of electives. Within this 36 credit points students must undertake a minimum of 24 credit points from one specialisation. The remaining 12 credit points may be taken from the selected specialisation or from any of the other listed specialisations. Students may select any of the listed units provided that they have the necessary prerequisites.

Students who successfully complete the taught units, normally with a GPA of at least 4.0, are required to write a dissertation on an area of interest in the public policy field of not more than 30,000 words.

Credit and/or unit substitutions may be granted up to a maximum of 48 credit points with the approval of the Course Coordinator. In the case of unit substitutions, the substituted unit will be a policy oriented unit chosen by the student and subject to the approval of the Course Coordinator.

All students undertake a research dissertation. Each student will be assigned to a supervisor, subject to the approval of the Course Coordinator, in consultation with the relevant Head of School. In general, the supervisor will be responsible for providing guidance in relation to the choice, preparation and submission of the dissertation. Both supervisor and student will observe QUT's Code of Good Practice in relation to the duties of a supervisor and student (refer to the University Manual of Policy and Procedures (MOPP), Appendix 66). The dissertation will be presented in accord with QUT policy, as listed in the MOPP, Appendix 51.

Supervisors shall be appointed when students commence the Research Seminar unit. The supervisor shall not be an examiner of the dissertation. The dissertation will be examined by an examining committee of at least three, appointed by the Dean, and consist of at least two examiners, one of whom may be external to the University, plus the Course Coordinator, who will act as chair of the examining committee.

Full Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EPN104	Policy Analysis	12	3
EPN106	Program Management	12	3
EPN117	Economics and Public Policy	12	3
	Applied Policy Elective Unit	12	
Year 1, Semester 2			
EPN118	Research Seminar	12	3
LWS010	Public Law	12	3
	Applied Policy Elective Unit	12	
	Applied Policy Elective Unit	12	
Year 2, Semester 1			
BSN151	Research Dissertation	48	

Part- time Course Structure

Year 1, Semester 1			
EPN104	Policy Analysis	12	3
EPN117	Economics and Public Policy	12	3
Year 1, Semester 2			
EPN118	Research Seminar	12	3
LWS010	Public Law	12	3
Year 2, Semester 1			
EPN106	Program Management	12	3
	Applied Policy Elective Unit	12	
Year 2, Semester 2			
	Applied Policy Elective Unit	12	
	Applied Policy Elective Unit	12	
Year 3, Semester 1			
BSN151/1	Research Dissertation	24	

Applied Policy Elective Specialisations

The applied policy electives offer a wide range of choice to the student. At present the following specialisations are available. Apart from a wide range of available policy areas, those students wishing to develop specific skills in the area of financial analysis and management may wish to select the financial management specialisation option which has been provided.

Economic Policy

EPN108	Developments in Microeconomic Theories	12	3
EPN111	Contemporary Macroeconomic Theories	12	3
EPN114	Industry Policy	12	3
EPN115	Environmental Economics and Policy	12	3

Education Policy

CPN604	Equity & Educational Management: Issues & Strategies	12	3
CPN607	Global Change, Diversity & Education	12	3
CPN608	Gender Equity and Education Policy	12	3
CPN609	Policy for Practitioners	12	3
CPN610	Youth Policies and Post-Compulsory Education	12	3
EAN602	Early Childhood Services and Policies	12	3

Environmental Policy

EPN115	Environmental Economics and Policy	12	3
LWN049	International Environmental Law	12	2
LWN060	Environmental Legal System	12	2
LWN061	Natural Resources Law	12	2
LWN062	Federal Environmental Law	12	2
LWN063	Comparative Environmental Law	12	2

Financial Management

AYN101	Accounting Principles	12	3
FNN102	Managerial Finance	12	3
FNN104	Financial Risk Management	12	3
FNN303	Management Accounting	12	3

Health Policy

PUN601	Contemporary Health Policies	12	3
PUN608	Economics and Health	12	3
PUN609	Health Care Finance	12	3
PUN610	Health Services Management	12	3
PUN612	Advance Health Evaluation	12	3
PUN613	Public Health Interventions: Principles and Practice	12	3
PUN692	Health Care Delivery Systems	12	3
PUP010	Health in Australian Society	12	3
PUP022	Health Promotion Concepts and Policy: A Critical Analysis	12	3

Housing and Urban Policy

CEP131	Engineering Management and Administration	12	3
PSN111	Comparative Planning Theory	6	2
PSN112	Concentration Studies	12	2.5
PSN114	Metropolitan Planning Practice and Law	12	3
PSN123	Planning in Developing Countries	6	2
PSN124	Option Course	12	2
PSN125	Housing Policy & Housing Problems: An International Perspective	12	3
PSN126	The Australian Housing System and Policies	12	3
PSP434	Urban Services and Functions	4	1

Human Resources and Industrial Relations Policy

HRN105	Labour-Management Relations	12	3
HRN112	Business Policy	12	3
HRP103	Industrial Relations Strategy and Policy	12	3
HRP106	Industrial Relations and Society	12	3
HRP110	Human Resource Management	12	3

Industry Policy

EPN113	Australian Trade and Foreign Policy	12	3
EPN114	Industry Policy	12	3
EPN115	Environmental Economics and Policy	12	3

Information Technology and Communication Policy

ITN220	Major Issues in Information Systems	12	3
ITN340	Information Agencies	12	3
ITN341	Information Policy & Planning	12	3
MJP102	Communication Policy Environment	12	3

Public Policy in the International Context

EPN109	International Business Policy and Competitive Strategies	12	3
EPN110	Regional Study	12	3
EPN113	Australian Trade and Foreign Policy	12	3
FNN105	International Finance	12	3
HRP100	International Industrial Relations	12	3
LWN049	International Environmental Law	12	2

Science and Technology Policy

CHP920	Technology Assessment and Forecasting	12	3
EPN119	Science and Technology Policy	12	3

■ Master of Quality (IF66)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Ian Saunders

This course is administered by the Academic Boards of the Faculties of Built Environment and Engineering, Business and Science through the Australian Centre in Strategic Management.

Entry Requirements

Applicants for the Master of Quality normally will enrol first for the Graduate Diploma in Quality. Students who perform adequately in the Graduate Diploma (normally a GPA of 5 or higher) will be eligible to proceed with the Master of Quality.

Suitably qualified applicants may be exempted from some or all of the requirements of the Graduate Diploma.

Course Structure

		Credit Points	Contact Hrs/Wk	Duration (Wks)
Year 1, Semester 1				
BSN143	Implementing & Sustaining Total Quality Management	12	3	14
MAN120	Quantitative Systems Analysis	6	3	7
MEN180	Project Management	6	3	7
Year 1, Semester 2				
HRN112	Business Policy	12	3	14
HRN114	Legal & Industrial Requirements	6	3	7
MEN181	Loss Control Management	6	3	7

Year 2, Semester 1

BSN149	Project	12		14
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Select one unit from the following:

EPP101	Economic Analysis	6	3	7
ISN380	Information Systems & Quality	6	3	7

■ Graduate Diploma in Quality (IF69)

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Ian Ogle

This course is administered by the Academic Boards of the Faculties of Built Environment and Engineering, Business and Science through the Australian Centre in Strategic Management.

Entry Requirements

To be eligible for enrolment in the Graduate Diploma in Quality, an applicant shall have completed a course at degree level or possess an equivalent qualification in science, engineering, management, commerce, education or another field deemed to be appropriate.

Where an equivalent course of study or examination cannot be readily established, an applicant may, in accordance with University practice, be recommended for special entry. This type of entry may depend collectively on the applicant's qualifications, background experience, current employment position and other similar factors.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk	Duration (Wks)
Year 1, Semester 1				
FNP101	Quality Cost Analysis	6	3	7
HRP111	Quality Systems Management	12	3	14
MEP173	Quality Planning	6	3	7
Year 1, Semester 2				
HRP102	Human Factors in Quality	6	3	7
MAP111	Statistical Methods in Quality	6	3	7
MEP274	Quality Systems Implementation & Maintenance	12	3	14
Year 2, Semester 1				
MAP212	Statistical Quality Control	12	3	14
Select one of the following units:				
HRP112	Management of Service Quality	12	3	14
MEP372	Measurement, Testing & Reliability	12	3	14
Year 2, Semester 2				
IFP222	Project	12	3	14
MAP222	Quality Improvement	12	3	14

■ Honours Degrees**1. General**

1.1 These regulations apply to honours degrees consisting of an additional year of full-time study (or equivalent) following completion of an undergraduate pass degree. The policy does not apply to pass degrees which may be awarded with honours.

1.2 Faculties are required to make a submission to Academic Committee for an honours program in the form of a new course proposal. Such a proposal should seek approval for a single honours program covering the full range of majors offered within an undergraduate award, whether or not all majors are to be offered at honours level.

1.3 Faculties are expected to produce statements of procedures to be read with, or which may incorporate, this policy statement.

1.4 Each honours program will be assigned a separate quota.

2. Admission to an Honours Degree

2.1 Students who wish to undertake an honours program should normally apply for admission to it at the end of the final year of their pass degree, or within 18 months of completing that degree.

2.2 In order to be considered eligible for admission, students should have attained a grade point average of at least 5.0 or an average grade of credit over the entire basic course, including grades of at least credit in all units directly relevant to, or specified as prerequisite for, the proposed honours program.

2.3 However, students who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

3. Duration

3.1 Except in special circumstances as approved by the Dean, the requirements for an honours degree must be completed within two successive years following first enrolment.

4. Program Requirements

4.1 Honours programs must comprise one year of full-time study or equivalent with at least 25 per cent but not more than 50 per cent of the credit points associated with the course to be allocated to a project or dissertation.

4.2 Faculties are responsible for providing candidates with program outlines which specify the distribution of credit point load between project/dissertation and coursework, the procedure for project or dissertation approval and a concise statement of faculty requirements, supervision arrangements, and procedures for examining project reports and dissertations.

5. Unsatisfactory Progress

5.1 Failure to make satisfactory progress with either the coursework component of an honours program or with the project/dissertation, or both, may lead to exclusion from the program.

5.2 Unsatisfactory progress consists of:

- ☐ receiving a grade of less than 4 (or 'Satisfactory', where applicable) in one unit of the coursework component
- ☐ failure to make sufficient progress with the project or dissertation component, in the opinion of the dean.

5.3 A student who is excluded from or otherwise fails to complete an honours program will not normally be readmitted to that program.

6. Assessment

6.1 The minimum grade which may be credited towards an honours degree is 4 (or 'Satisfactory', where applicable).

6.2 A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners before final printing and binding.

6.3 Project reports and dissertations will be examined by an examining committee appointed by the Dean and consisting of at least two examiners, one of whom may be external to the University. The supervisor of the candidate's work may be a member of the committee but may not chair the committee or act as the primary examiner.

7. Determination of Level of Honours Awards

7.1 The faculty academic board, on advice from the school, will determine the level of honours to be awarded.

7.2 Honours degrees will be awarded at the following levels after account is taken of the candidate's performance in all units and appropriate weight applied to the project or dissertation:

Honours 1	First Class Honours
Honours 2A	Second Class Honours, Division A
Honours 2B	Second Class Honours, Division B
Honours 3	Third Class Honours

7.3 The level of honours award is to be determined by guidelines, as follows:

Honours 1	Grade point average of 6.50-7.00, or equivalent
Honours 2A	Grade point average of 5.50-6.49, or equivalent
Honours 2B	Grade point average of 4.50-5.49, or equivalent
Honours 3	Grade point average of 4.00-4.49, or equivalent.

7.4 A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

■ Bachelor of Applied Science/Bachelor of Laws (IF34)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:

Science: Dr Don Field

Law: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree affects the Law component of the Bachelor of Applied Science/Bachelor of Laws degree (IF34) offered by the University. The first two years of the four year full-time program (or the equivalent units in other combined Law programs) were introduced in 1994. The final two years of the four year full-time program (or the equivalent units in combined Law programs) will be introduced in 1995.

Full-Time Course Structure

Credit Points	Contact Hrs/Wk
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For detailed information on the range and availability of units within the applied sciences refer to the entry for Bachelor of Applied Science (SC30) in the Faculty of Science section.

Year 1, Semester 1

LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research & Legal Reasoning	12	3
	3 Science Units from the SC30 First Schedules ¹	36	

Year 1, Semester 2

LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
	3 Science Units from the SC30 First Schedules ¹	36	

Year 2, Semester 1

LWB132/1	Contracts	12	3
	3 Science Units from the SC30 Second Schedules ¹	36	

Year 2, Semester 2

LWB132/2	Contracts	12	3
	3 Science Units from the SC30 Second Schedules ¹	36	

Year 3, Semester 1

LWB133/1	Torts	12	3
LWB232/1	Criminal Law & Procedure	12	3
	2 Science Units from the SC30 Third Schedules ¹	24	

Year 3, Semester 2

LWB133/2	Torts	12	3
LWB232/2	Criminal Law & Procedure	12	3
	2 Science Units from the SC30 Third Schedules ¹	24	

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3
LWB331	Administrative Law	12	3

Year 4, Semester 2

LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ²		

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ²		

¹ Students will be required to attend an advisory session with an academic adviser to select their science units.

² A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of one 8 credit point elective unit in a semester. A student may undertake as electives units offered by other faculties or schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Arts/Bachelor of Laws (IF36)

Location: Carseldine and Gardens Point campuses

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:

Arts: Dr Wayne Hindsley

Law: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of this Handbook.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree affects the Law component of the Bachelor of Arts/Bachelor of Laws degree (IF36) offered by the University. The first two years of the four year full-time program (or the equivalent units in combined Law programs) were introduced in 1994. The final two years of the four year full-time program (or the equivalent units in combined Law programs) will be introduced in 1995.

Full Time Course Structure

Credit Points	Contact Hr/Wk
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Years 1 and 2

Refer to the course structure for Years 1 and 2 in the Bachelor of Arts (HU20) entry in the Faculty of Arts section.

Year 3, Semester 1

LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3
LWB134	Research & Legal Reasoning	12	3

Year 3, Semester 2

LWB131/2	Law in Context	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3
LWB135	Legislation	12	3

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB232/2	Criminal Law & Procedure	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ²		

Year 5, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ²		

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Business/Bachelor of Laws (IF40)

Available Majors: Banking & Finance, Economics, Human Resource Management, Industrial Relations, International Business, Journalism, Management, Marketing, and Public Sector Management.

Location: Gardens Point campus (Study on other campuses may be required dependent on major selected).

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-time Semester: 60

Course Coordinators: To be determined

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland, please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of this Handbook. For information on the academic requirements of the accrediting bodies recognising study in the Bachelor of Business component, refer to the section on professional recognition in the relevant majors within the Bachelor of Business course entry.

Course Structure

The structure given below represents the law component of the degree only. Students supplement this program with one major, undertaken in the Faculty of Business, selected from the following: Banking and Finance; Economics; Human Resource Management;

² A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of one 8 credit point elective unit in a semester. A student may undertake as electives units offered by other faculties or schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.

Industrial Relations; International Business; Journalism; Management; Marketing; or Public Sector Management. For information on the units within each of the majors, refer to the relevant section in the Bachelor of Business (BS50) course entry.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
	Three units from selected Business Major (Please refer to BS50 Bachelor of Business course structure for units annotated as @ in the relevant Primary Major)	36	
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3
Year 1, Semester 2			
	Three units from selected Business Major	36	
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
	Three units from selected Business Major	36	
LWB132/1	Contracts	12	3
Year 2, Semester 2			
	Three units from selected Business Major	36	
LWB132/2	Contracts	12	3
Year 3, Semester 1			
	Two units from selected Business Major	24	
LWB133/1	Torts	12	3
LWB232/1	Criminal Law & Procedure	12	3
Year 3, Semester 2			
	Two units from selected Business Major	24	
LWB133/2	Torts	12	3
LWB232/2	Criminal Law & Procedure	12	3
Year 4, Semester 1			
LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3
LWB331	Administrative Law	12	3
Year 4, Semester 2			
LWB235	Australian Federal Constitutional Law	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB334	Corporate Law	12	3
LWB333	Theories of Law	12	3
Year 5, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ³		

³ A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of an 8 credit point elective in a semester. A student may undertake as electives units offered by other faculties or schools provided pre-requisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research and Legal Reasoning	12	3
Electives Units ³			

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Business (Accountancy)/Bachelor of Laws (IF37)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 540

Standard Credit Points/Full-Time Semester: 54

Course Coordinators:

Business: Mr Robert Humphreys

Law: Professor Malcolm Cope

Professional Recognition

The combined Accountancy/Law degree satisfies the academic requirements of the Institute of Chartered Accountants in Australia and the Australian Society of Certified Practising Accountants. For membership purposes, the ASCPA will not accept a grade of 3 in core accounting units unless a grade of 4 or better is achieved in a subsequent core unit. For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree affects the Law component of the Bachelor of Business (Accountancy)/Bachelor of Laws degree offered by the University. The first two years of the four year full-time program (or the equivalent units in combined law programs) were introduced in 1994. The final two years of the four year full-time program (or the equivalent units in combined law programs) will be introduced in 1995.

³ A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of an 8 credit point elective in a semester. A student may undertake as electives units offered by other faculties or schools provided pre-requisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****INTERFACULTY
COURSES****Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research & Legal Reasoning	12	3
MAB173	Quantitative Methods	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
ISB892	Business Computing	12	4
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3

Year 2, Semester 1

AYB101	Computerised Accounting Systems	12	4
AYB112	Company Accounting	12	4
EPB140	Macroeconomics	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3

Year 2, Semester 2

BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3

Year 3, Semester 1

AYB210	Auditing	12	3
FNB112	Finance 2	12	4
FNB124	Managerial Accounting 2	12	4
LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3

Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
LWB232/2	Criminal Law & Procedure	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB366	Law of Commercial Entities	8	2

Year 4, Semester 1

LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB331	Administrative Law	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB364	Introduction to Taxation Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁴		

Year 5, Semester 2

LWB359	Advanced Taxation Law	12	2
LWB433	Professional Responsibility	12	3

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Information Technology/Bachelor of Laws (IF38)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:

Information Technology: Mr Bob Smyth

Law: Professor Malcolm Cope

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society. For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree affects the Law component of the Bachelor of Information Technology/Bachelor of Laws degree offered by the University. The first two years of the four year full-time program (or the equivalent units in combined law programs) were introduced in 1994. The final two years of the four year full-time program (or the equivalent units in combined law programs) will be introduced in 1995.

Full Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB310	Information Management 1	12	3
ITB410	Software Development 1	12	3
Year 1, Semester 2			
BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

⁴ A student is required to complete 32 credit points of elective units and must normally enrol in a minimum of an 8 credit point elective in a semester. A student may undertake as electives units offered by other faculties of schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.

Year 2, Semester 1

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB520	Data Communications	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3

Year 2, Semester 2

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB233	File Structures	12	3
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3

Year 3, Semester 1

ITB222	Systems Analysis & Design 1	12	3
ITB230	Project	12	
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3
LWB232/1	Criminal Law & Procedure	12	3

Year 3, Semester 2

ITB241	Information Systems Management	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3
LWB232/2	Criminal Law & Procedure	12	3

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB233/2	Property 1		
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ³		

Year 5, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ³		

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester

³ A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of an 8 credit point elective in a semester. A student may undertake as electives units offered by other faculties or schools provided pre-requisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Information Technology/Bachelor of Laws (IF33)

Course Discontinued: No further intakes. This course has been replaced by Bachelor of Information Technology/Bachelor of Laws (IF38).

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-time Semester: 56.1 (average)

Course Coordinators:

Information Technology: Mr Bob Smyth

Law: Professor Malcolm Cope

Course Structure (Continuing Students only)

		Credit Points	Contact Hrs/Wk
Year 5, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ³		
Year 5, Semester 2			
LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ³		

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Engineering (Electronics)/Bachelor of Information Technology (IF23)⁵

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 496

³ A student is required to complete 48 credit points of elective units and must normally enrol in a minimum of an 8 credit point elective in a semester. A student may undertake as electives units offered by other faculties or schools provided pre-requisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

⁵ See course requirements and notes relating to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

Standard Credit Points/Full-Time Semester: 49.1 (average)

Course Coordinators:

Information Technology: Dr Gerry Finn

Engineering: Mr John Edwards

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the training and experience requirements for admission to the grade of Member of the Society. It is accredited by the Institution of Engineers, Australia, and the Institution of Radio and Electronics Engineers, Australia as meeting the training requirements for admission to Graduate membership of these Institutions.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial experience/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Built Environment and Engineering Faculty Office) a report in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record. Forms are available from the Faculty Industrial Experience Officer in Room 1006, ITE Building, Gardens Point campus.

Students should not formally enrol in industrial experience/practice.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEB101	Circuits & Measurements	6	3
EEB380	Engineering Management Skills	8	3
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB410	Software Development 1	12	3
MAB103	Introductory Engineering Mathematics ⁶	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
EEB203	Circuit Analysis	6	3
EEB271	Basic Electronic Devices	8	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
PHB234	Engineering Physics 2B	8	3
MAB188	Engineering Maths 1B	8	3
Year 2, Semester 1			
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	8	3
EEB362	Introduction to Communications Systems	6	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	7	3
ITB421	Data Structures & Algorithms	12	3
MAB493/1	Engineering Mathematics 2	6	3
Year 2, Semester 2			
EEB401	Network Theory 2	6	3
EEB471	Electronics	8	3

⁶ MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

EEB474	Microprocessors	6	3
ITB420	Computer Architecture	12	3
ITB422	Laboratory 3 (ADTs in a UNIX Environment)	12	3
ITB431	Programming Language Paradigms	12	3
MAB493/2	Engineering Mathematics 2	6	3

Year 3, Semester 1

EEB473	Integrated Electronics	6	3
EEB520	Control Engineering	6	3
EEB563	Signals & Linear Systems	6	3
EEB573	Industrial Electronics	6	3
EEB591	Systems Programming Languages	6	3
EEB661	Information Theory & Noise	6	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

EEB587	Design 1	6	3
EEB602	Signal Processing	6	3
EEB967	Digital Communications	6	3
ITB424	Software Engineering Principles	12	3
ITB440	Languages & Language Processing	12	3
MAB894	Engineering Mathematics 4	6	3

Year 4, Semester 1

EEB620	Control Systems Analysis	6	3
EEB788	Design 2	8	3
EEB821	Production Technology & Quality	6	3
EEB968	Digital Signal Processing	6	3
EEB971	Applied Electronics	6	3
ITB430	Concurrent Systems	12	3

Year 4, Semester 2

EEB430	Engineering Fields	6	3
EEB621	Advanced Control Systems	6	3
EEB820	Engineering Management	8	3
EEB887	Design 3	6	3
ITB423	Laboratory 4 (Software Development)	12	3
ITB450	Advanced Computer Architectures	12	3

Year 5, Semester 1

EEB562	Transmission & Propagation	6	3
EEB891	Signal Computing & Real-time DSP	8	3
	Computing Elective Unit	12	
	Electrical Elective Unit	7	

Select one of the following units:

CSB980/1	Project	15	
EEB789/1	Project	15	

Year 5, Semester 2

EEB888	Design 4	10	3
	Computing Elective Unit	12	
	Electrical Elective Unit	7	

Select one of the following units:

CSB980/2	Project	15	
EEB789/2	Project	15	6

ELECTIVE UNITS

Computing Elective Units

Any Computing Science unit in the Bachelor of Information Technology at a level higher than first year.

Electrical Elective Units

EEB761	Statistical Communication	7	3
EEB841	Mining Electrotechnology	7	3

EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB954	Electrical Energy Utilisation	7	3
EEB955	Power Electronics Application	7	3
EEB956	Photovoltaic Engineering	7	3
EEB961	Communication Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB969	Digital Spectral Analysis	7	3
EEB972	Integrated Electronic Techniques	7	3

Note: Any advanced unit not previously completed in either the Electrical and Computer Engineering or Computing Science degree courses may be studied as an elective unit. Not all of these elective units will be run. See the Faculty Office/School noticeboards before enrolling.

■ Bachelor of Engineering (Manufacturing Systems)/ Bachelor of Business (Marketing) (IF56)

Location: Gardens Point

Course Duration: 5 years full-time

Total Credit Points: 546

Standard Credit Points/Full-Time Semester: 54

Course Coordinator: Dr R.M. Iyer

Professional Recognition

Membership, the Institution of Engineers, Australia.

Diploma, Australian Institute of Export

Special Course Requirements

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial employment/practice, submit to the Course Coordinator (through the Faculty Office) a report in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus and also from the Faculty Office.

Students should not formally enrol in industrial employment/practice.

Note: The new course structure listed below will be introduced from 1995. Students entering the course in 1995 will follow the new course structure. Continuing students should consult the course summary sheet for transition arrangements.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEB184	Engineering Mechanics 1	6	3
COB160	Professional Communication (Business)	12	3
MAB103	Introductory Mathematics ⁶	(8)	(3)

⁶ MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

MAB187	Engineering Mathematics 1A	8	3
MEB173	Manufacturing Practice	8	3
MKB140	Principles of Marketing	12	3
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
AYB100	Accounting for Managers	12	3
EPB109	Business Methodology	12	3
MAB188	Engineering Mathematics 1B	8	3
MEB111	Dynamics	8	3
MEB133	Materials	6	3
MEB212	Mechanics of Solids	6	3
Year 2, Semester 1			
ALB110	Business Law	12	3
CSB192	Introduction to Computing	8	3
EEB101	Circuits and Measurements	6	3
EPB116	Economic Principles 1	12	3
MAB487	Engineering Mathematics 2A	8	3
MEB121	Engineering Graphics	6	3
Year 2, Semester 2			
BSB102	Management & Organisation	12	3
CSB491	Unix and C	4	2
EEB209	Electrical Engineering 2M	6	3
MAB488	Engineering Mathematics 2B	8	3
MEB101	Design 1	8	3
MEB473	Manufacturing Engineering 1	8	4
MKB142	Consumer Behaviour	12	3
Year 3, Semester 1			
FNB107	Corporate Finance	12	4
MEB314	Mechanics 1	8	4
MEB334	Materials 2	8	4
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8	4
MEB572	Manufacturing Engineering 2	8	4
Year 3, Semester 2			
EEB270	Digital Design Principles	6	3
HRB131	Personnel Management & Industrial Relations	12	3
MEB641	Automation 1	8	4
MEB672	Total Quality Management	8	3
MEB676	Design for Manufacturing 1	8	3
MKB141	Marketing Management	12	3
Year 4, Semester 1			
HRB116	Innovation & Entrepreneurship	12	3
MEB662	Fluid Power	8	4
MEB675	Plastics Technology	8	4
MEB774	Operations Management	8	3
MEB776	Design for Manufacturing 2	8	3
MKB151	Marketing Research	12	3
Year 4, Semester 2			
FNB120	International Finance	12	4
MEB661	Tribology	8	4
MEB873	Computer Integrated Manufacturing	8	4
MEB971	Knowledge Based Manufacturing Systems	8	3
MEB979	Manufacturing Resources Planning	8	3
MKB148	Marketing Decision Making	12	3
Year 5, Semester 1			
MEB901	Industry Project	32	40
MKB143	Export Management	12	3
MKB149	International Marketing	12	3

Year 5, Semester 2

MEB775	Technology Management	8	3
MEB871	Computer Control of Manufacturing Systems	8	4
MEB872	Design for Manufacturing 3	8	3
MKB155	Strategic Marketing	12	3
	Group A Elective Unit	8	
	Group B Elective Unit	12	

Elective Units**Group A**

MEB531	Advanced Materials	8	3
MEB601	Special Topic 2	8	3
MEB740	Maintenance Management & Technology	8	3
MEB800	Special Topic 4	8	3

Group B

EPB133	Globalisation & World Business	12	3
HRB118	International Management	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
MKB136	Marketing Logistics	12	3
MKB146	Services Marketing	12	3

■ Bachelor of Information Technology/Bachelor of Surveying (IF54)⁵**Location:** Gardens Point campus**Course Duration:** 5 years full-time**Total Credit Points:** 542**Standard Credit Points/Full-Time Semester:** 55 (average)**Course Coordinators:**

Surveying: Associate Professor Brian Hannigan

Information Technology: Mr Michael Middleton

Professional Recognition

This course has been accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society and it meets the requirements of the Surveyors Board of Queensland for registration as a surveyor, but not for licensing.

Special Course Requirements

Students must obtain at least 90 days of industrial experience/practice in a surveying environment approved by the Course Coordinator.

Students must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Surveying Course Coordinator a report or diary in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School of Planning, Landscape Architecture and Surveying Office or the Faculty Industrial Employment Officer in Room ITE1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the

⁵ See course requirements and notes relating to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial experience/practice.

Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
MAB103	Introductory Engineering Mathematics ⁶	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PSB325	Land Surveying 1	8	3
Year 1, Semester 2			
BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB412	Technology of Information Systems	12	3
MAB188	Engineering Mathematics 1B	8	3
PSB054	Environmental Science	4	2
PSB326	Land Surveying 2	8	3
Year 2, Semester 1			
ESB229	Geology in the Built Environment	6	2
ITB220	Database Design	12	3
ITB310	Information Management 1	12	3
MAB494	Survey Mathematics 1	6	3
MEB121	Engineering Graphics	6	3
PHB134	Engineering Physics 1B	8	3
PSB327	Land Surveying 3	10	3
Year 2, Semester 2			
ITB411	Software Development 2	12	3
MAB496	Survey Mathematics 2	6	3
PHB172	Physics for Surveyors	6	3
PSB306	Cartography 1	8	3
PSB315	Land Administration 1	6	3
PSB334	Photogrammetry 1	6	3
PSB342	Spatial Information Science 1	8	3
Year 3, Semester 1			
ITB320	Laboratory 3 (Database Applications)	12	3
ITB331	Information Management 2	12	3
MAB795	Survey Mathematics 3	6	3
MAB893	Engineering Mathematics 3	8	3
MEB221	Engineering Science 1	6	3
PSB307	Cartography 2	8	3
PSB340	Remote Sensing 1	6	3
Year 3, Semester 2			
ITB323	Laboratory 4 (Information Support Methods)	12	3
PSB303	Analysis of Spatial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB317	Land Administration 3	8	3
PSB328	Land Surveying 4	8	3
SSB937	Applied Cognitive Psychology	12	3

⁶ MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

Year 4, Semester 1

ITB321	Systems Analysis	12	3
PSB304	Analysis of Spatial Measurement 2	6	3
PSB309	Cartography 4	8	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB335	Photogrammetry 2	8	3
PSB346	Spheroidal Computations	6	3

Year 4, Semester 2

ITB341	Information Management 3	12	3
ITB520	Data Communications	12	3
PSB310	Geodesy 1	6	3
PSB330	Land Surveying 6	8	3
PSB336	Photogrammetry 3	8	3
PSB343	Spatial Information Science 2	8	3

Year 5, Semester 1

IFB880/1	Project	12	3
ITB330	Information Issues & Values	12	3
PSB316	Land Administration 2	8	3
PSB324	Land Studies 2	6	3
PSB344	Spatial Information Science 3	8	3
	Elective Unit (Business)	12	

Year 5, Semester 2

IFB880/2	Project	12	3
PSB338	Professional Practice	6	3
PSB345	Spatial Information Science 4	8	3
	Elective Unit(s)	24	

Elective Units

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends on sufficient minimum enrolments and availability of staff.

Recommended Business/elective units are:

		Credit Points	Contact Hrs/Wk
First Semester			
AYB100	Accounting for Managers	12	3
BSB102	Management & Organisation	12	3
COB144	Creative Language for Communicators	12	3
EPB150	Microeconomics	12	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
MKB140	Principles of Marketing	12	3
Second Semester			
BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	3

■ Bachelor of Applied Science (Surveying)/Bachelor of Information Technology (IF52)⁵

Course Discontinued: No further intakes. This course has been replaced by the Bachelor of Surveying / Bachelor of Information Technology (IF54). Years 3 to 5 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 4.5 years full-time

Total Credit Points: 468

Standard Credit Points/Full-Time Semester: 52 (average)

Course Coordinators:

Surveying: Associate Professor Brian Hannigan

Information Technology: Mr Michael Middleton

Professional Recognition

This course has been accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society and it meets the requirements of the Surveyors Board of Queensland for registration as a surveyor, but not for licensing.

Special Course Requirements

Students must obtain at least 90 days of industrial experience/practice, either in a surveying or computing environment approved by the Course Coordinator.

Students must not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available for the School Office, or the Faculty Office, Faculty Industrial Experience Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial experience/practice.

Full-Time Course Structure (Continuing Students only)		Credit Points	Contact Hrs/Wk
Year 3, Semester 1			
ESB229	Geology for the Built Environment	6	2
ITB320	Laboratory 3 (Database Applications)	12	3
PHB134	Engineering Physics 1B	8	3
PSB054	Environmental Science	4	2
PSB307	Cartography 2	8	3
PSB327	Land Surveying 3	10	3
SVB551	Land Valuation	6	3
SVB563	Land Information Systems 2	4	2

⁵ See course requirements and notes relating to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

Year 3, Semester 2

ITB323	Laboratory 4 (Information Support Methods)	12	3
PHB172	Physics for Surveyors	6	3
PSB303	Analysis of Spatial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB328	Land Surveying 4	8	3
PSB334	Photogrammetry 1	6	3
SVB573	Land Administration 3	6	3

Year 4, Semester 1

ITB331	Information Management 2	12	3
ITB441	Graphics	12	3
MAB795	Survey Mathematics 3	6	3
PSB335	Photogrammetry 2	8	3
SVB535	Land Surveying 5	5	3
SVB551	Land Valuation	6	3
SVB563	Land Information Systems 2	4	2
	General Elective	12	

Year 4, Semester 2

IFB880/1	Project	12	3
ITB341	Information Management 3	12	3
SVB636	Land Surveying 6	6	3
SVB682	Seminar 2	2	1
SVB688	Professional Practice A	4	2
	Business Elective	12	

Year 5, Semester 1

IFB880/2	Project	12	3
ITB330	Information Issues & Values	12	3
SVB563	Land Information Systems 2	4	2
	Elective Unit (Business)	12	3
	Elective Unit	12	3

Elective Units

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

Recommended Business elective units are:

		Credit Points	Contact Hrs/Wk
First Semester			
AYB100	Accounting for Managers	12	3
BSB102	Management & Organisation	12	3
COB144	Creative Language for Communicators	12	3
EPB150	Microeconomics	12	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
MKB140	Principles of Marketing	12	3
Second Semester			
BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	3

■ New Opportunities in Tertiary Education (NOTE) Program (BN10)

Location: Gardens Point campus

Course Duration: 1 year

Standard Credit Points/Part-Time Semester: 24

Coordinators:

Mrs Jenny Danslow, Ms Deborah Messer

A one-year, bridging program for women. The program provides bridging tuition to enable women who have the abilities – but not the entry requirements – to undertake study in engineering, science, or technology courses at QUT.

This program assists with articulation into certain courses within the faculties of Built Environment and Engineering, Information Technology, and Science.

Students are guided into a study program which takes account of their background and the course to which entry is sought. Units are selected from a combination of bridging units and units from the first year degree program to which entry is sought. The bridging units are as follows:

		Credit Points	Contact Hrs/Wk
CHS200	Chemistry	6	3
ITB001	Computing Practice (NOTE) 1	6	3
ITB002	Computing Practice (NOTE) 2	6	3
MAS090	Mathematics (a full year unit)	12	3
PHS021	Introductory Physics	6	3

FACULTY OF ARTS

ARTS

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FACULTY OF ARTS

Course Structures

■ Master of Arts (AT22)

With majors in: Dance, Drama, Music, Visual Arts, Humanities, and Social Science

Location: Kelvin Grove campus (Dance, Drama, Music, Visual Arts)

Carseldine campus (Humanities, Social Science)

Course Duration: 2 years full-time, 4 years part-time (3-year qualified entry)

1 year full-time, 2 years part-time (4-year qualified entry)

Total Credit Points: 192 or 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brad Haseman

Discipline Coordinators:

Dance: Ms Kristen Bell

Drama: Mr Brad Haseman

Music: Mr Adrian Thomas

Visual Arts: Dr Joe Airo-Farulla

Humanities: Dr Sharyn Pearce

Social Science: Mr Roger Lowe

Entry Requirements

To be eligible for admission, an applicant must hold the following:

- (i) an approved honours degree, or
- (ii) an approved postgraduate diploma, or
- (iii) an approved bachelor's degree at an acceptable standard, or
- (iv) other qualifications deemed acceptable which may include substantial relevant experience.

Course Structure

Students with an approved 4-year entry qualification will normally undertake a 96 credit point Research Project.

Students in Dance, Drama, Music or Visual Arts with an approved 3-year entry qualification will normally undertake 48 credit points of core studies and a 144 credit point Research Project.

		Credit Points	Contact Hrs/Wk
Core Units			
Semester 1			
AAN001	Arts Research Methods 1	12	3
AAN003	Aesthetic Codes in Contemporary Society	12	3
AAN004/1	Graduate Seminar	6	3

Semester 2

AAN002	Arts Research Methods 2	12	3
AAN004/2	Graduate Seminar*	6	3

Research Project

The Research Project in Dance, Drama, Music and Visual Arts may be undertaken as a 96 credit point or 144 credit point project. Students proceed through the project by enrolling each semester in one of the repeatable units:

ATN001	Research Project – 1 unit	12
ATN002	Research Project – 2 units	24
ATN003	Research Project – 3 units	36
ATN004	Research Project – 4 units	48

* Graduate Seminar is to be taken in the two semesters prior to completion.

■ Master of Fine Arts (AA24)

With majors in Dance, Drama, Music and Visual Arts

Location: Kelvin Grove Campus

Course duration: 1.5 years full-time or 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brad Haseman

Discipline Coordinators:

Dance: Ms Kristen Bell

Drama: Ms Brad Haseman

Music: Mr Adrian Thomas

Visual Arts: Mr Andrew McNamara

Entry Requirements

To be eligible for admission, applicants must hold an appropriate bachelors degree (or equivalent, which may include substantial work experience) at a standard considered acceptable by the discipline coordinator. This would normally constitute a grade point average of 5 or higher on a 7 point scale across undergraduate studies undertaken.

All applicants are required to attend an interview with the relevant discipline coordinator. In addition, Visual Arts applicants are required to submit a folio.

Full-time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
AAN003	Aesthetic Codes in Contemporary Society	12	3
AAN011	Advanced Professional Practice 1	12	
AAN012	Advanced Professional Practice 2	12	
	Elective Unit	12	
Semester 2			
AAN013	Advanced Professional Practice 3	24	24
	Elective Unit	24	
Semester 3			
ATN004	Research Project – 4 units	48	

Research Project

The MFA Research Project in Dance, Drama, Music or Visual Arts will be undertaken as

a 48 credit point project. Full-time students will enrol in ATN004 Research Project – 4 units (48 credit points). Part-time students proceed through the project by enrolling each semester in either of the repeatable units ATN001 Research Project – 1 unit (12 credit points) or ATN002 Research Project – 2 units (24 credit points).

Elective units

Details of elective units can be obtained from the discipline coordinator. All students can elect to enrol in AAN005 Advanced Arts Project (24 credit points) and/or AAN006 Independent Study (12 credit points).

■ Master of Social Science (Counselling) (SS12)

Location: Carseldine Campus

Course Duration: 3 years part-time

Total Credit Points: 144

Standard Credit Points/Part-time Semester: 24

Course Coordinator: Mr Glen Guy

Entry Requirements

To be eligible for admission, an applicant must have:

- (i) an approved degree in a human service or related area;
- (ii) at least two years' work experience;
- (iii) access to ongoing counselling related work with clients;
- (iv) personal suitability.

Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
SSN000	Counselling Studies 1	12	3
SSN001	Professional Studies 1	12	3
Year 1, Semester 2			
SSN002	Counselling Studies 2	12	3
SSN003	Group Studies	12	3
Year 2, Semester 1			
SSN004	Counselling Studies 3	12	3
SSN005	Research Methods and Issues	12	3
Year 2, Semester 2			
SSN006	Professional Studies 2	12	3
One elective selected from:			
SSN009	Family Therapy Practice	12	3
SSN010	Career Counselling	12	3
SSN011	Independent Study	12	
SSN012	Counselling and Organisations	12	3
SSN013	Advanced Counselling Studies	12	3
Year 3, Semester 1			
SSN007	Professional Studies 3	12	3
SSN008/1	Project	12	3 (equiv.)
Year 3, Semester 2			
SSN008/2	Project	24	6 (equiv.)

■ Graduate Diploma of Social Science (Counselling) (SS10)

Course discontinued: This course has been replaced by the Master of Social Science (Counselling) (SS12). There will be no intake into this course in 1995.

Location: Carseldine campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24 (average)

Course Coordinator: Mr Glen Guy

Special Course Requirements

The course is currently offered on a part-time basis, which involves attendance at two 3-hour evening sessions per week plus additional practicum requirements. Students should note that the practicums are not scheduled on a regular weekly contact basis but that a minimum of 24 hours work in each practicum is required during the semester in which the practicum is scheduled.

Course Structure (continuing students only)		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
SSP005	Practicum 2	8	
SSP006	Counselling: A Sociological Perspective	8	3
SSP007	Theory & Practice of Counselling 3	12	3
Year 2, Semester 2			
SSP016	Advanced Practicum	8	
	Elective Unit	8	
	Elective Unit	8	
Elective Units			
SSP009	Career Guidance & Counselling	8	3
SSP012	The Counsellor & the Organisation	8	3
SSP013	Independent Study	8	3
SSP014	Family Therapy 1	8	3
SSP017	Counselling in Groups	8	3

■ Bachelor of Arts (Honours) (Drama or Visual Arts) (AA40)

Location: Kelvin Grove campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Strand Coordinators:

Drama: Ms Jacqueline Hamilton

Visual Arts: Mr Andrew McNamara

Rules and Conditions

For regulations regarding the Honours program, consult the University-wide and Interfaculty Courses section of this Handbook.

BACHELOR OF ARTS (HONOURS) (DRAMA)**Course Structure****Semester 1**

AAB001/1	Research Project	24	
AAN200	Dramaturgy	12	3
AAN202	Textual Analysis	12	3

Select one of the following units:

AAN003	Aesthetic Codes in Contemporary Society	12	3
AAN006	Independent Study	12	

Semester 2

AAB001/2	Research Project	24	
AAB002	Graduate Seminar	12	3

BACHELOR OF ARTS (HONOURS) (VISUAL ARTS)**Semester 1**

AAB001/1	Research Project	24	
AAB021	Advanced Research Methods	12	3
AAB023	Advanced Readings in Australian Art	12	3
AAN700	Contemporary Debates on the Nature of Art	12	3

Semester 2

AAB001/2	Research Project	24	
AAB002	Graduate Seminar	12	3

■ Bachelor of Arts (HU20)**Location:** Carseldine campus**Course Duration:** 3 years full-time; 6 years part-time**Total Credit Points:** 288**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Dr Wayne Hindsley**Course Requirements**

Students must complete the first year requirements and one of the major study sequences offered by the School of Humanities. They may choose to complete a second major study sequence, one or more minor study sequences, or a range of elective units. Students may complete up to 96 credit points offered by other schools/faculties as part of their degree.

Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
HUB603	Texts & Interpretation (compulsory for all students)	12	3
plus three of the following, but not more than one Language Other Than English (LOTE) unit:*			
HUB600	Australian Society & Culture	12	3
HUB601	Human Identity & Change	12	3
HUB602	The Humanities Traditions	12	3

* Students who wish to enrol in more than one LOTE must have permission from the Course Coordinator. Students will normally not be allowed to enrol in two LOTE units at the introductory level.

LOTE Units:

HUB650	Introductory Indonesian 1	12	4
HUB660	Introductory Japanese 1 OR (for students who have completed Year 12 Japanese or equivalent)	12	4
HUB662	Japanese Language & Culture 1	12	4
HUB670	Introductory French 1 OR (for students who have completed Year 12 French or equivalent)	12	4
HUB672	French Language & Culture 1	12	4
HUB735	Introductory German 1 OR (for students who have completed Year 12 German or equivalent)	12	4
HUB737	German Language & Culture 1	12	4

Year 1, Semester 2

Students other than those specialising in a LOTE enrol in four units of the following entry level units to the various major/minor study sequences offered by the School of Humanities. Students specialising in a LOTE enrol in three of the entry level units plus the second unit in their LOTE sequence. Students who enter the course with advanced standing should discuss their enrolment with the course coordinator.

MAJOR STUDY SEQUENCES

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB680	Approaches to Australian Studies	12	3
HUB720	Approaches to European Studies	12	3
HUB750	Understanding Ethics	12	3

MINOR STUDY SEQUENCES

HUB694	Australian Politics	12	3
HUB760	Approaches to Feminist Studies	12	3

LOTE Units:

HUB651	Introductory Indonesian 2	12	4
HUB661	Introductory Japanese 2 OR (for students who have completed Year 12 Japanese or equivalent)	12	4
HUB663	Japanese Language & Culture 2	12	4
HUB671	Introductory French 2 OR (for students who have completed Year 12 French or equivalent)	12	4
HUB673	French Language & Culture 2	12	4
HUB736	Introductory German 2 OR (for students who have completed Year 12 German or equivalent)	12	4
HUB738	German Language & Culture 2	12	4

Years 2 and 3

Students must complete a minimum of 96 credit points of advanced level units in their chosen major study sequence. Up to two of these advanced level units may be from approved offerings of other schools/faculties.

MAJOR STUDY SEQUENCES**APPLIED ETHICS****Introductory (Compulsory)**

HUB750	Understanding Ethics	12	3
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Advanced (Compulsory)

HUB751	Public & Professional Ethics	12	3
HUB752	The Just Society	12	3
HUB753	Ethical Decision-making	12	3
HUB755	Vulnerable Identities	12	3

Advanced (Elective)

HUB617	Women, Aid & Development	12	3
HUB682	Social Movements in Australia	12	3
HUB687	Contemporary Moral Problems	12	3
HUB693	Australian Race Relations	12	3
HUB754	Feminism & Ethics	12	3
HUB756	Advanced Seminar in Applied Ethics	12	3
HUB772	Introduction to Politics: Political Ideologies	12	3
HUB800	Politics & Markets	12	3
SSB006	Studies in Human Rights 2	12	3
SSB037	Studies in Human Rights 3	12	3

ASIA/PACIFIC STUDIES

Asia/Pacific Studies offers four options. Students studying one of the three language options are encouraged to complete a 120 credit point extended major. Note: Students specialising in a LOTE may apply for an in-country semester study option. In this case, students enrol in HUB648 In-country Semester (48 credit points).

Option 1 – Asia/Pacific Political, Cultural and Development Studies (96 credit points)**Introductory (Compulsory)**

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
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Advanced (Elective Units)

HUB612	Modern Indonesian Studies	12	3
HUB617	Women, Aid & Development	12	3
HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB619	Pacific Culture Contact	12	3
HUB620	The Pacific Since 1945	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3
HUB623	Asian/Pacific Political Studies	12	3
HUB624	Advanced Seminar in Asian/Pacific Studies	12	3
HUB626	Contemporary South-East Asia	12	3
HUB627	Australia and the South Pacific	12	3
HUB628	Modern Japan	12	3
HUB629	Modern China	12	3
HUB630	Geography of East Asia	12	3

Option 2 – Indonesian Language and Culture (96 credit points)

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB647	In-country Summer School or Equivalent	24	

Sequence of six language units:

HUB650	Introductory Indonesian 1	12	4
HUB651	Introductory Indonesian 2	12	4
HUB652	Indonesian Language & Culture 1	12	4
HUB653	Indonesian Language & Culture 2	12	4
HUB654	Indonesian Language & Culture 3	12	4
HUB655	Indonesian Language & Culture 4	12	4

Option 3 – Japanese Language and Culture (96 credit points)

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB628	Modern Japan	12	3
HUB647	In-country Summer School or Equivalent	24	

Sequence of six language units:

HUB660	Introductory Japanese 1	12	4
HUB661	Introductory Japanese 2	12	4
HUB662	Japanese Language & Culture 1	12	4
HUB663	Japanese Language & Culture 2	12	4
HUB664	Japanese Language & Culture 3	12	4
HUB665	Japanese Language & Culture 4	12	4

HUB666	Japanese Language & Culture 5	12	4
HUB667	Japanese Language & Culture 6	12	4
Option 4 – French Language and Culture (96 credit points)			
HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB619	Pacific Culture Contact	12	3
	OR		
HUB620	The Pacific Since 1945	12	3
HUB647	In-country Summer School or Equivalent	24	
Sequence of six language units:			
HUB670	Introductory French 1	12	4
HUB671	Introductory French 2	12	4
HUB672	French Language & Culture 1	12	4
HUB673	French Language & Culture 2	12	4
HUB674	French Language & Culture 3	12	4
HUB675	French Language & Culture 4	12	4
HUB676	French Language & Culture 5	12	4
HUB677	French Language & Culture 6	12	4
HUB678	French for Business and the Professions	12	3

AUSTRALIAN STUDIES

Australian Studies offers four minor study sequences. A major studies sequence in Australian Studies constitutes 96 credit points and must be drawn from at least two of the minor studies sequences.

Option 1 – Contemporary Australia

Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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Advanced (Elective Units)

HUB682	Social Movements in Australia	12	3
HUB683	Australian Geographical Studies	12	3
HUB685	Resources, Planning & Development	12	3
HUB687	Contemporary Moral Problems	12	3
HUB694	Australian Politics	12	3
HUB713	Advanced Seminar in Australian Studies	12	3

Option 2 – Historical Australia

Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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Advanced (Elective Units)

HUB690	Themes in Australian History	12	3
HUB691	Women's Past – Women's History to Feminist Historiography	12	3
HUB692	Conspiracy & Dissent in Australian History	12	3
HUB693	Australian Race Relations	12	3
HUB713	Advanced Seminar in Australian Studies	12	3

Option 3 – Aboriginal and Torres Strait Islander Studies

Units offered by the Aboriginal and Torres Strait Islander Unit in conjunction with the School of Humanities:

Introductory (Compulsory)

HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
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Advanced (Elective Units)

HUB690	Themes in Australian History	12	3
HUB693	Australian Race Relations	12	3
HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB702	The Australian Dreaming: The Indigenous Construction	12	3
HUB703	Politics & Political Culture in Indigenous Australia	12	3
HUB713	Advanced Seminar in Australian Studies	12	3

Option 4 – Australian Literary and Cultural Studies

Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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Advanced (Elective Units)

HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB710	Australian Literary Studies	12	3
HUB711	Australian Women's Writing	12	3
HUB712	Australian Children's & Adolescent Fiction	12	3
HUB713	Advanced Seminar in Australian Studies	12	3

EUROPEAN STUDIES

European Studies offers three options. Students studying one of the language options are encouraged to complete a 120 credit point extended major. Note: students specialising in a LOTE may apply for an in-country semester study option. In this case, students enrol in HUB648 In-country Semester (48 credit points).

Option 1 – European History, Literature and Culture (96 credit points)

Introductory (Compulsory)

HUB720	Approaches to European Studies	12	3
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Advanced (Elective Units)

HUB649	Advanced Seminar in European Studies	12	3
HUB721	The Classical World	12	3
HUB722	Foundations of Modern Europe	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB724	Nineteenth Century English Literature & Culture	12	3
HUB725	Twentieth Century English Literature & Culture	12	3
HUB726	European Literature & Social Change	12	3
HUB727	European Literature & Identity	12	3
HUB728	Popular Literature	12	3
HUB729	Shakespeare in the Modern World	12	3
HUB730	Women's Writing & Representation	12	3

Option 2 – French Language and Culture (96 credit points)

HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB647	In-country Summer School or Equivalent	24	

Sequence of six language units:

HUB670	Introductory French 1	12	4
HUB671	Introductory French 2	12	4
HUB672	French Language & Culture 1	12	4
HUB673	French Language & Culture 2	12	4
HUB674	French Language & Culture 3	12	4
HUB675	French Language & Culture 4	12	4
HUB676	French Language & Culture 5	12	4
HUB677	French Language & Culture 6	12	4
HUB678	French for Business and the Professions	12	4

Option 3 – German Language and Culture (96 credit points)

HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB647	In-country Summer School or Equivalent	24	

Sequence of six language units:

HUB735	Introductory German 1	12	4
HUB736	Introductory German 2	12	4
HUB737	German Language & Culture 1	12	4
HUB738	German Language & Culture 2	12	4
HUB739	German Language & Culture 3	12	4
HUB740	German Language & Culture 4	12	4
HUB741	German Language & Culture 5	12	4
HUB742	German Language & Culture 6	12	4

MINOR STUDY SEQUENCES

FEMINIST STUDIES

Students may complete the minor by enrolling in one of the following two strands. Other combinations of units may be undertaken with the approval of the course coordinator.

Strand 1 – Gender and Representation

Introductory (Compulsory)

HUB760	Approaches to Feminist Studies	12	3
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Advanced (Elective Units)

HUB711	Australian Women's Writing	12	3
HUB730	Women's Writing & Representation	12	3
HUB754	Feminism & Ethics	12	3

Strand 2 – Women's Historical and Spatial Perspectives

Introductory (Compulsory)

HUB760	Approaches to Feminist Studies	12	3
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Advanced (Elective Units)

HUB617	Women, Aid & Development	12	3
HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB691	Women's Past: Women's History to Feminist Historiography	12	3

POLITICAL STUDIES

Introductory (Compulsory)

Select one of the following units:

HUB694	Australian Politics	12	3
HUB772	Introduction to Politics: Political Ideologies	12	3

Advanced (Elective Units)

HUB623	Asian/Pacific Political Studies	12	3
HUB682	Social Movements in Australia	12	3
HUB752	The Just Society	12	3
HUB800	Politics & Markets	12	3
HUB801	Politics & Consumption	12	3
HUB802	Politics & Production	12	3
HUB803	Patterns of Regulation	12	3

■ Bachelor of Arts (Dance) (AA11)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Course Coordinator: Ms Shaaron Boughen

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AAB051	Arts in Society	12	3
AAB100/1	Composition 1	4	3
AAB101/1	Dance Kinesiology & Alignment	6	3
AAB104/1	Music	4	3
AAB121/1	Contemporary Technique 1 ¹	8	7.5
AAB123/1	Classical Technique 1 ¹	8	6
AAB125	Dance Analysis & History 1	12	3

¹ Designated units. See Student Rules for details.

Year 1, Semester 2

AAB100/2	Composition 1	4	3
AAB101/2	Dance Kinesiology & Alignment	6	3
AAB104/2	Music	4	3
AAB106	Dance Analysis & History 2	12	3
AAB121/2	Contemporary Technique 1 ¹	8	7.5
AAB123/2	Classical Technique 1 ¹	8	6

Year 2, Semester 1

AAB109/1	Practicum	6	
AAB111	Dance Research	8	2
AAB122/1	Contemporary Technique 2 ¹	8	7.5
AAB124/1	Classical Technique 2 ¹	8	6
AAB126/1	Composition & Production Techniques	8	5
	Elective Unit/s		

Year 2, Semester 2

AAB109/2	Practicum	6	
AAB112	History of Australian Theatre Dance	8	3
AAB122/2	Contemporary Technique 2 ¹	8	7.5
AAB124/2	Classical Technique 2 ¹	8	6
AAB126/2	Composition & Production Techniques	8	5
	Elective Unit/s		

Note: Year 2 Elective Unit/s must total 20 credit points for the year.

Year 3, Semester 1

AAB113	Writings on Dance	12	2
AAB114	Dance in Australian Society	12	3
	Elective Unit/s		

Select one of the following units:

AAB116	Dance in the Community	12	3
AAB117	Dance in Education	12	3

Year 3, Semester 2

AAB115	Professional Development Studies	8	2
AAB118	Dance Independent Study	16	
	Elective Unit/s		

Note: Year 3 Elective unit/s must total 36 credit points for the year

Elective Units

AAB151	Contemporary Technique 1	12	4.5
AAB152	Contemporary Technique 2	12	4.5
AAB153	Advanced Performance 1	20	
AAB154	Advanced Performance 2	36	
AAB155	Advanced Analysis: Ballet	12	2
AAB156	Advanced Analysis: Modern Dance	12	2
AAB157	Advanced Analysis: Comparative Study	12	1
AAB158	Advanced Composition 1	8	5
AAB159	Advanced Composition 2	12	5
AAB160	Advanced Composition 3	12	5
AAB161	Dance in the Community 1	16	3
AAB162	Dance in the Community 2	16	3
AAB163	Dance in the Community 3	16	3
AAB164	Dance Elective	8	

Elective units can be selected from other approved QUT courses. Consult the course coordinator for details.

¹ Designated units. See Student Rules for details.

■ Bachelor of Arts (Drama) (AA21)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Course Coordinator: Dr Jacqueline Martin

Course Structure

	Credit Points	Contact Hrs/Wk
ACTING (ACT)		
Year 1, Semester 1		
AAB051 Arts in Society	12	3
AAB204 Voice & Movement 1	12	4
AAB206 Stagecraft 1	12	4
AAB208 Elements of Drama	12	3
Year 1, Semester 2		
AAB202 Acting 1	12	4
AAB205 Voice & Movement 2	12	4
AAB207 Stagecraft 2	12	4
AAB225 Practicum 1	12	
Year 2, Semester 1		
AAB203 Acting 2 ¹	12	4
AAB211 Development of Theatre 1	12	3
AAB233 Voice & Movement 3 ¹	12	6
AAB246/1 Music & Dance	6	4
Year 2, Semester 2		
AAB212 Development of Theatre 2	12	3
AAB226 Practicum 2	12	
AAB234 Voice & Movement 4 ¹	12	6
AAB246/2 Music & Dance	6	4
AAB247 Acting 3 ¹	12	6
Year 3, Semester 1		
AAB219 Professional Studies	12	3
AAB227 Practicum 3	12	
AAB235 Voice & Movement 5	12	6
AAB248 Acting 4	12	6
Year 3, Semester 2		
AAB236 Voice & Movement 6	12	3
AAB250 Theatre Production	36	
ARTS ADMINISTRATION (AAD)		
Year 1, Semester 1		
As for Acting		
Year 1, Semester 2		
AAB202 Acting 1	12	4
AAB207 Stagecraft 2	12	4
AAB225 Practicum 1	12	
ISB892 Business Computing	12	4
Year 2, Semester 1		
AAB261 The Arts Environment	12	3
AAB262 Arts Finance	12	3
AAB264 Arts Events Promotion	12	3
COB160 Professional Communication (Business)	12	3

¹ Designated units. See Student Rules for details.

Year 2, Semester 2

AAB212	Development of Theatre 2	12	3
AAB226	Practicum 2	12	
AAB263	Arts Marketing	12	3
AYB100	Accounting for Managers	12	3

Year 3, Semester 1

AAB219	Professional Studies	12	3
AAB265	Issues in Arts Management	12	3
AAB266	Arts Events Planning	12	3
MKP100	Fundraising Principles	12	3

Year 3, Semester 2

AAB227	Practicum 3	12	
AAB250	Theatre Production	36	

STAGE MANAGEMENT (STM)**Year 1 (as for Acting)****Year 2, Semester 1**

AAB211	Development of Theatre 1	12	3
AAB261	The Arts Environment	12	3
AAB289	Production Techniques 1	12	6
AAB292	Stage Management 1	12	6

Year 2, Semester 2

AAB212	Development of Theatre 2	12	3
AAB226	Practicum 2	12	
AAB290	Production Techniques 2	12	6
AAB293	Stage Management 2	12	6

Year 3, Semester 1

AAB219	Professional Studies	12	3
AAB266	Arts Events Planning	12	3
AAB291	Production Techniques 3	12	6
AAB294	Stage Management 3	12	6

Year 3, Semester 2

AAB227	Practicum 3	12	
AAB250	Theatre Production	36	

OPEN (OPE)**Year 1 (as for Acting)****Year 2, Semester 1**

AAB211	Development of Theatre 1	12	3
	Elective Units	24	

Select one of the following units:

AAB052	Signs & Meanings	12	3
AAB220	Theatre Studies Option	12	

Year 2, Semester 2

AAB212	Development of Theatre 2	12	3
AAB226	Practicum 2	12	
	Elective Units	24	

Year 3, Semester 1

AAB219	Professional Studies	12	3
	Elective Units	24	

Select one of the following units:

AAB052	Signs & Meanings	12	3
AAB220	Theatre Studies Option	12	

Notes on Open Strand

Units with unspecified contact hours are practical, project-based units with variable contact by arrangement with supervisors.

Other drama units may be available to students of the Open Strand but access to elective units in other strands of the BA (Drama) is limited by class size, and approval must be gained from the course coordinator in the semester prior to enrolment in those units.

A maximum of 48 credit points of elective units in any University discipline other than drama may be undertaken with the approval of the relevant coordinator of the course in which those units are offered.

Students wishing to undertake larger elective loads within the other Academy of the Arts programs of Dance, Music or Visual Arts may do so with the approval of the BA(Drama) course coordinator, and may be required to undergo an audition or present a folio for access to these programs.

Students wishing to plan an integrated set of electives of playwriting, directing or theatre design should consult the BA(Drama) course coordinator because restrictions apply to enrolments in advanced electives in these areas.

Students wishing to proceed to the Graduate Diploma of Education (Pre-service) must take 48 credit points of elective units in an appropriate discipline (e.g. English, LOTE, etc) other than drama. These students should refer to relevant sections of the QUT Handbook relating to prerequisites for the Graduate Diploma of Education (Pre-service).

Drama Electives, Years 2 and 3		Semester	Credit Points	Contact Hrs/Wk
AAB203	Acting 2	1	12	4
AAB214	Drama Process	1	12	3
AAB213	Directing	1	12	3
AAB215	Theatre Design	1	12	3
AAB216	Playwriting	1	12	3
AAB217	Arts Research & Evaluation ¹²	1	12	3
AAB247	Acting 3	1	12	6
AAB302	Children's Play to Performance	2	12	3
AAB303	Theatre in Education	2	12	3
Advanced Drama Electives, Years 2 and 3				
AAB218	Arts Research & Evaluation ²²	2	12	3
AAB304	Forming Knowledge	2	12	3
AAB305	Advanced Drama Process	2	12	3
AAB321	Advanced Design 1	1 or 2	12	
AAB322	Advanced Design 2	1 or 2	12	
AAB324	Advanced Directing 1	1 or 2	12	
AAB325	Advanced Directing 2	1 or 2	12	
AAB327	Advanced Playwriting 1	1 or 2	12	
AAB328	Advanced Playwriting 2	1 or 2	12	
AAB329	Independent Study: Drama	1 or 2	24	

² Prerequisite units for students wishing to proceed to the Honours program in Drama.

■ Bachelor of Arts (Music) (AA51)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Course Coordinator: Mr Max Olding

Course Structure

**Credit
Points** **Contact
Hrs/Wk**

ARTS

JAZZ & POPULAR MUSIC STRAND

Year 1, Semester 1

AAB051	Arts in Society	12	3
AAB561	Practical Studies A1	12	6
AAB527/1	Aural Musicianship 1	6	2
AAB528/1	Written Musicianship 1	6	2
AAB569	Composition & Technology 1	12	3

Year 1, Semester 2

AAB562	Practical Studies A2 ¹	12	6
AAB527/2	Aural Musicianship 1	6	2
AAB528/2	Written Musicianship 1	6	2
AAB570	Composition & Technology 2	12	3
AAB587	Music in Western Civilisation	12	4

Year 2, Semester 1

AAB571/1	Practical Studies A3 ¹	12	6
AAB573	Aural & Written Musicianship 3	12	4
AAB575	Music from 1600-1750	12	4
AAB583	Composition & Technology 3	12	3

Year 2, Semester 2

AAB571/2	Practical Studies A3 ¹	12	6
AAB574	Aural & Written Musicianship 4	12	4
AAB576	Music from 1750-1900	12	4
AAB584	Composition & Technology 4	12	3

Year 3, Semester 1

AAB572/1	Practical Studies A4	12	6
AAB577	Twentieth-Century Music 1	12	4
AAB585	Composition & Technology 5	12	3
AAB556	Professional Studies	12	2

Year 3, Semester 2

AAB572/2	Practical Studies A4	12	6
AAB578	Twentieth-Century Music 2	12	3
AAB586	Composition & Technology 6	12	3
AAB522	Music Elective 2	12	

VOCAL AND INSTRUMENTAL MUSIC STRAND

Year 1, Semester 1

AAB051	Arts in Society	12	3
AAB561	Practical Studies A1	12	5
AAB527/1	Aural Musicianship 1	6	2
AAB528/1	Written Musicianship 1	6	2
AAB566	Practical Studies B1	12	5-6

Year 1, Semester 2

AAB562	Practical Studies A2 ¹	12	6
AAB527/2	Aural Musicianship 1	6	2

¹ Designated units. See Student Rules for details.

AAB528/2	Written Musicianship 1	6	2
AAB567	Practical Studies B2	12	5-6
AAB587	Music in Western Civilisation	12	4

Note: The Combined Studies and Performance Strands are being phased out, the following course structures only relate to continuing students.

COMBINED STUDIES STRAND

Year 2, Semester 1

AAB571/1	Practical Studies A3 ¹	12	5
AAB573	Aural & Written Musicianship 3	12	4
AAB575	Music from 1600-1750	12	4

Select one of the following units:

AAB521	Music Elective 1	12	
	Non-Music Elective Unit	12	

Year 2, Semester 2

AAB571/2	Practical Studies A3 ¹	12	5
AAB574	Aural & Written Musicianship 4	12	4
AAB576	Music from 1750-1900	12	4

Select one of the following units:

AAB522	Music Elective 2	12	
	Non-Music Elective Unit	12	

Year 3, Semester 1

AAB572/1	Practical Studies A4	12	5
AAB577	Twentieth-Century Music 1	12	4

Select one of the following units:

AAB523	Music Elective 3	12	
AAB556	Professional Studies	12	2

Select one of the following units:

AAB524	Music Elective 4	12	
	Non-Music Elective	12	

Year 3, Semester 2

AAB572/2	Practical Studies A4	12	5
AAB578	Twentieth-Century Music 2	12	3
AAB525	Music Elective 5	12	

Select one of the following units:

AAB526	Music Elective 6	12	
	Non-Music Elective	12	

PERFORMANCE STRAND

Year 2, Semester 1

AAB571/1	Practical Studies A3 ¹	12	5
AAB573	Aural & Written Musicianship 3	12	4
AAB575	Music from 1600-1750	12	4
AAB579	Practical Studies B3	12	5-6

Year 2, Semester 2

AAB571/2	Practical Studies A3 ¹	12	5
AAB574	Aural & Written Musicianship 4	12	4
AAB576	Music from 1750-1900	12	4
AAB580	Practical Studies B4	12	5-6

Year 3, Semester 1

AAB572/1	Practical Studies A4	12	5
AAB577	Twentieth-Century Music 1	12	4
AAB581	Practical Studies B5	12	5-6

¹ Designated unit. See Student Rules for details.

Select one of the following units:

AAB521	Music Elective 1	12	
AAB556	Professional Studies	12	2

Year 3, Semester 2

AAB572/2	Practical Studies A4	12	5
AAB578	Twentieth-Century Music 2	12	3
AAB582	Practical Studies B6	12	5-6
AAB522	Music Elective 2	12	

Elective Units

Non-Music elective units can be selected from other approved QUT courses. Consult the course coordinator for details.

■ Bachelor of Arts (Visual Arts) (AA71)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Course Coordinator: Mr John Armstrong

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AAB051	Arts in Society	12	3
AAB052	Signs & Meanings	12	3
AAB700	Foundation Media Studies 1 ¹	24	12
Year 1, Semester 2			
AAB703	Foundation Media Studies 2 ¹	24	12
AAB726	Introduction to Art History	12	3
	Elective Unit	12	
Year 2, Semester 1			
AAB707	Advanced Media Studies 1 ¹	24	12
	Art Theory Elective Unit	12	3
	Elective Unit	12	
Year 2, Semester 2			
AAB708	Advanced Media Studies 2 ¹	24	12
	Art Theory Elective Unit	12	3
	Elective Unit	12	
Year 3, Semester 1			
AAB709	Advanced Media Studies 3 ¹	24	12
	Art Theory Elective Unit	12	3
	Elective Unit	12	
Year 3, Semester 2			
AAB706	Practicum 2	12	
AAB710	Advanced Media Studies 4 ¹	24	12
Select one of the following units:			
AAB714	Professional Studies	12	4
	Elective Unit	12	

¹ Designated units. See Student Rules for details.

Art Theory Elective Units

Semester 1

AAB701	The Making of Modernism	12	3
AAB712	Contemporary Art Issues ³	12	3
AAB713	Research Methods Seminar ³	12	3

Semester 2

AAB704	Art Since 1945	12	3
AAB711	Australian Art	12	3
AAB444	Visual Arts of Asia	12	3
AAB724	Renaissance Studies (not offered 1995)	12	3
AAB727	Aboriginal Art (not offered 1995)	12	3
AAB728	Special Topics in Art Theory	12	3
AAB729	Signs & Meanings 2 (not offered 1995)	12	3

Elective Units

Elective units may be selected from the following list of studio elective units, or from other approved QUT courses. Consult the course coordinator for details.

AAB447	Drawing	12	3
AAB455	Computer Graphics 1	12	3
AAB457	Sculpture 1	12	3
AAB705	Practicum 1	12	
AAB720	Extended Media Study 1	12	3
AAB721	Extended Media Study 2	12	3
AAB722	Extended Media Study 3	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3

Year-long Elective Units

For multi-semester units, students are required to enter 1, or 2 to indicate the component part of the unit to be studied, eg. AAB730/1. All units commence in Semester 1.

AAB730	Ceramic Materials in a Contemporary Context	12	2
AAB731	Introduction to Drawing: Looking into Seeing	12	2
AAB732	Computer Imaging	12	2
AAB733	Modelling in Three-Dimensional Space (not offered 1995)	12	2
AAB734	Applied Surface and Pattern Design	12	2
AAB735	The Photographic Image (not offered 1995)	12	2

■ Bachelor of Social Science (SS07)

With majors in: Human Services, Psychology, and Sociology.

Location: Carseldine campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Course Coordinators:

Human Services Major: Dr John Tomlinson

Psychology Major: Dr Kevin Voges

Sociology Major: Dr Paul Harrison

³ Prerequisite unit for student intending to apply for Honours program in Visual Arts.

HUMAN SERVICES MAJOR (HSE)

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

SSB000	Australian Society: Introduction to Sociology	12	3
SSB001	Human Development 1	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Introduction to Psychology	12	3

Year 1, Semester 2

SSB004	Social Inequality in Australia	12	3
SSB005	Human Development 2	12	3
SSB006	Studies in Human Rights 2	12	3
SSB007	Interpersonal Processes & Skills	12	3

Year 2, Semester 1

SSB008	Counselling Theory & Practice 1	12	3
SSB009	The Australian Welfare State	12	3
SSB010	Professional Resources 1	12	3

Select one from the following:

SSB011	Child & Family Services 1	12	3
SSB012	Disability Services 1	12	3
SSB013	Corrective Services 1	12	3
SSB014	Aged Services 1	12	3
SSB015	Multicultural Services 1	12	3
SSB016	Youth Services 1	12	3

Year 2, Semester 2

SSB017	Group Work	12	3
SSB019	Professional Resources 2	12	3
SSB047	Organisational Skills 1	12	3

Select one from the following:

SSB020	Child & Family Services 2	12	3
SSB021	Disability Services 2	12	3
SSB022	Corrective Services 2	12	3
SSB023	Aged Services 2	12	3
SSB024	Multicultural Services 2	12	3
SSB025	Youth Services 2	12	3

Inter-Semester Period

SSB026	Fieldwork Practice 1	N/A	360 hrs for 10 weeks
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Year 3, Semester 1

SSB027	Community Work	12	3
SSB028	Australian Political Structures & Institutions	12	3
SSB048	Organisational Skills 2	12	3

Select one from the following:

SSB030	Child & Family Services 3	12	3
SSB031	Disability Services 3	12	3
SSB032	Corrective Services 3	12	3
SSB033	Aged Services 3	12	3
SSB034	Multicultural Services 3	12	3
SSB035	Youth Services 3	12	3

Inter-Semester Period

SSB036	Fieldwork Practice 2 ⁴	N/A	360 hrs for 10 wks
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⁴ Practicum completed during mid-semester break.

Year 3, Semester 2

SSB037	Studies in Human Rights 3	12	3
SSB038	Social Policy & Social Change	12	3
SSB039	Contemporary Social Policies	12	3
SSB046	Directed Studies in Human Service Practice & Theories	12	3

Part-Time Course Structure

For details of the options available for the part-time course, contact the Course Coordinator.

PSYCHOLOGY MAJOR (PSY)**Full-time Course Structure****Year 1, Semester 1**

SSB000	Australian Society: Introduction to Sociology	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Introduction to Psychology	12	3
	Elective Unit	12	

Year 1, Semester 2

SSB004	Social Inequality in Australia	12	3
SSB007	Interpersonal Processes and Skills	12	3
SSB930	Psychological Research Methods	12	3
SSB932	Introduction to Psychology B	12	3

Year 2, Semester 1

SSB008	Counselling Theory and Practice 1	12	3
SSB915	Social Psychology	12	3
SSB950	Research Design and Data Analysis	12	3
	Elective Unit	12	

Year 2 Semester 2

SSB017	Group Work	12	3
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Two* of:

SSB913	Developmental Psychology	12	3
SSB931	Human Learning and Motivation	12	3
SSB934	Biology and Behaviour	12	3

* All three of these units have to be completed before graduating. Only two need to be completed in Year 2 Semester 2, and the third can be completed either in Year 2 Semester 2 or as an elective in Year 3 Semester 2. If only two are completed in this semester, an elective can be substituted for the third unit.

Year 3, Semester 1

SSB933	Cognitive Psychology	12	3
SSB951	Advanced Statistical Analysis**	12	3
	Elective Unit	12	
	Elective Unit	12	

** Compulsory if wishing to continue into the BSocSc (Honours) program. Otherwise a psychology elective can be taken.

Year 3, Semester 2

SSB936	Personality and Psychopathology	12	3
SSB941	Psychological Assessment	12	3
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

SSB000	Australian Society: Introduction to Sociology	12	3
SSB003	Introduction to Psychology	12	3

Year 1, Semester 2

SSB930	Psychological Research Methods	12	3
SSB932	Introduction to Psychology B	12	3

Year 2, Semester 1

SSB002	Studies in Human Rights 1	12	3
	Elective Unit	12	

Year 2, Semester 2

SSB004	Social Inequality in Australia	12	3
SSB007	Interpersonal Processes and Skills	12	3

Year 3, Semester 1

SSB915	Social Psychology	12	3
SSB950	Research Design and Data Analysis	12	3

Year 3, Semester 2

SSB913	Developmental Psychology	12	3
SSB931	Human Learning and Motivation	12	3

Year 4, Semester 1

SSB008	Counselling Theory and Practice 1	12	3
	Elective Unit	12	

Year 4, Semester 2

SSB017	Group Work	12	3
SSB934	Biology and Behaviour	12	3

Year 5, Semester 1

SSB933	Cognitive Psychology	12	3
	Elective Unit	12	

Year 5, Semester 2

SSB936	Personality and Psychopathology	12	3
SSB941	Psychological Assessment	12	3

Year 6, Semester 1

SSB951	Advanced Statistical Analysis	12	3
	Elective Unit	12	

Year 6, Semester 2

	Elective Unit	12	
	Elective Unit	12	

Psychology Elective Units

The following elective units are offered in the Psychology program to enable diversity of choice at undergraduate and early postgraduate level and to allow innovative approaches to current and perceived community needs. However, such elective units will be offered subject to staff availability and sufficient student enrolment to justify running the unit.

SSB804	Psychology & Gender	12	3
SSB939	Alcohol & Other Drug Studies	12	3
SSB942	Independent Study (Psychology)	12	3
SSB943	Occupational & Vocational Psychology	12	3
SSB944	Industrial & Organisational Psychology	12	3
SSB948	Advanced Developmental Psychology	12	3
SSB949	Introduction to Family Therapy	12	3

Other elective unit approved by Head of School.

Notes

Elective units are to be chosen in consultation with the Head of School or appointed nominee/ adviser to ensure that progression rules for the degree and/or for fourth year study are followed. Up to 72 credit points of elective units can be taken from other schools or faculties.

Bachelor of Business and Bachelor of Applied Science students completing a minor or a secondary major in Psychology at the Gardens Point campus may choose from the following units also but are to note incompatible units. (These units are not normally open to Bachelor of Social Science students who will follow the Social Science program.)

SSB912	Psychology (incompatible with Introduction to Psychology)
SSB917	Physiological & Health Psychology (incompatible with Biology & Behaviour)
SSB937	Applied Cognitive Psychology (incompatible with Cognitive Psychology)

Other units as advised from time to time.

Students should seek advice before finalising their choices.

SOCIOLOGY MAJOR (SOC)

Full-Time Course Structure

		Credit Points	Contact Hours
Year 1, Semester 1			
SSB000	Australian Society: Introduction to Sociology	12	3
SSB001	Human Development	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Introduction to Psychology	12	3
Year 1, Semester 2			
SSB004	Social Inequality in Australia	12	3
SSB005	Human Development 2	12	3
SSB007	Interpersonal Processes & Skills	12	3
SSB960	Sociological Theory ⁵	12	3
Year 2, Semester 1			
SSB969	Comparative Sociological Analysis ⁵	12	3
SSB970	Economic Sociology ⁵	12	3
	Sociology Elective Unit	12	3
	Elective Unit	12	3
Year 2, Semester 2			
SSB971	Political Sociology ⁵	12	3
	Sociology Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3
Year 3, Semester 1			
SSB980	Advanced Sociological Theory ⁵	12	3
	Sociology Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3
Year 3, Semester 2			
SSB981	Action Research & Professional Practice ⁵	12	3
	Sociology Elective Unit	12	3
	Sociology Elective Unit	12	3
	Elective Unit	12	3

Note: Sociology core units in Years 2 and 3 are subject to change in 1995.

Part-Time Course Structure

For details of the options available for the part-time course, contact the Course Coordinator.

Elective Units and Sociology Elective Units

Electives in the Sociology major are divided into Sociology Elective Units and 'general' Elective Units.

⁵ *Sociology Core Units*

Up to 72 credit points of 'general' Elective Units may be chosen from units offered by the School of Social Science or by other schools or faculties. The following Human Service strands may be taken as 'general' Elective Units: aged, child and family, corrective, disability, multicultural, and youth. Other units within the Human Services or Psychology majors may also be suitable as electives.

■ Associate Degree in Dance (AA09)

Location: Kelvin Grove campus

Course Duration: 2 years full-time

Total Credit Points: 192

Course Coordinator (Acting): Mr Graeme Collins

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AAX101/1	Composition 1	4	2
AAX104/1	Dance Kinesiology & Alignment	6	3.5
AAX105/1	Dance Styles 1	4	2
AAX111	Repertoire & Practice Period 1 ¹	12	
AAX115/1	Dance History	4	1.5
AAX117	Ballet Technique 1 ¹	8	9
AAX121	Contemporary Technique 1 ¹	8	9
Year 1, Semester 2			
AAX101/2	Composition 1	4	2
AAX104/2	Dance Kinesiology & Alignment	6	3.5
AAX105/2	Dance Styles 1	4	2
AAX112	Repertoire & Practice Period 2 ¹	16	
AAX115/2	Dance History	4	1.5
AAX118	Ballet Technique 2 ¹	8	7.5
AAX122	Contemporary Technique 2 ¹	8	7.5
Year 2, Semester 1			
AAX102/1	Dance Composition 2	4	2
AAX103/1	Music 1	4	1.5
AAX106/1	Dance Styles 2	4	3
AAX113	Repertoire & Practice Period 3 ¹	16	
AAX116/1	Stagecraft	4	2
AAX119	Ballet Technique 3 ¹	8	9
AAX123	Contemporary Technique 3 ¹	8	7.5
Year 2, Semester 2			
AAX102/2	Dance Composition 2	4	2
AAX103/2	Music 1	4	1.5
AAX106/2	Dance Styles 2	4	3
AAX114	Repertoire & Practice Period 4 ¹	16	
AAX116/2	Stagecraft	4	2
AAX120	Ballet Technique 4 ¹	8	7.5
AAX124	Contemporary Technique 4 ¹	8	7.5

¹ Designated units. See Student Rules for details.

■ Associate Diploma in Dance (AA10)

This course is being phased out. It will be replaced by the new Associate Degree in Dance (AA09)

Location: Kelvin Grove campus

Course Duration: 2 years full-time

Total Credit Points: 192

Course Coordinator (Acting): Mr Graeme Collins

Course Structure – Continuing Students		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
AAX102/1	Dance Composition 2	4	2
AAX103/1	Music 1	4	1.5
AAX106/1	Dance Styles 2	4	3
AAX113	Repertoire & Practice Period 3 ¹	16	
AAX116/1	Stagecraft	4	2
AAX119	Ballet Technique 3 ¹	8	9
AAX123	Contemporary Technique 3 ¹	8	7.5
Year 2, Semester 2			
AAX102/2	Dance Composition 2	4	2
AAX103/2	Music 1	4	1.5
AAX106/2	Dance Styles 2	4	3
AAX114	Repertoire & Practice Period 4 ¹	16	
AAX116/2	Stagecraft	4	2
AAX120	Ballet Technique 4 ¹	8	7.5
AAX124	Contemporary Technique 4 ¹	8	7.5

¹ Designated units. See Student Rules for details.

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

**BUILT
ENVIRONMENT
& ENGINEERING**

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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Course Structures

☐ Course Requirements and Notes Relating to Postgraduate Courses

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester they are offered. In order to maintain orderly progression through a course, a prerequisite requirement **may** be waived if a student has attempted but not passed the prerequisite and the approval of the Course Coordinator has been obtained. This is considered to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed should seek the advice of the Course Coordinator.

Supplementary Assessment

It is not normally faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment, the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

School of Civil Engineering Safety Shoes Policy

Students enrolled in the units CEP998 Project B and CEP999 Project A will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering if required.

■ Master of Applied Science (Research) (BN71)

Location: Gardens Point campus

Introduction

The objectives of the program are:

- ☐ to provide for postgraduate educational opportunities in the specialised fields of applied science relating to the built environment, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge
- ☐ to provide further education in research methods
- ☐ to enable graduates employed in industry to undertake further education by thesis and research

- ☐ to enable industrial organisations and other external agencies to sponsor a candidate research program under the control and supervision of the faculty
- ☐ to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

1. General Conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act 1988.

1.2 The Council's power to approve recommendations from faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedure relating to research degrees is exercised through a Research Management Committee which is a subcommittee of Academic Committee.

1.3 Research Management Committee has delegated responsibility for day to day administration of research master degree courses to faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research master degree candidates.

1.4 This program is administered by the Academic Board of the Faculty of Built Environment and Engineering through its Faculty Research Committee. The program is offered in Architecture, Construction Management, Industrial Design, Interior Design, Landscape Architecture, Planning, and Surveying.

1.5 In order to qualify for the award of the degree of Master of Applied Science (Research), a candidate must:

- ☐ have completed the approved course of study involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment and Engineering Academic Board
- ☐ have submitted and the Faculty Research Committee accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the Thesis Panel
- ☐ have completed such other work as may be prescribed by the Faculty Research Committee, and
- ☐ submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.

2. Registration

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 There is a six month maximum period between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Applied Science before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

2.4 The minimum academic qualifications for admission to the Master of Applied Science (Research) program, are:

- ☐ possession of an honours degree, or
- ☐ possession of a qualification judged equivalent by the Faculty Research Committee, or

- ❑ a grade point average of 5.0 or better in a graduate diploma in a relevant discipline with demonstrated potential for further study and/or evidence of professional standing, or
- ❑ a grade point average of 5.0 or better in a coursework master degree program in a relevant discipline with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Applied Science (Research) program without the minimum entry requirement may present a case for admission based on the submission of evidence of qualifications which demonstrate the applicant's capacity to pursue the course of study.

The case may be based on the following:

- (i) three years professional experience in the general field in which the proposed work lies, or
- (ii) satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
- (iii) the submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a branch of applied science relevant to the built environment in which the applicant has worked as a professional practitioner in a position of responsibility; this knowledge should be relevant to the field of study proposed.

2.5 A candidate shall be registered initially as:

- ❑ a graduate student (provisional) if they are to undertake an appropriate qualifying program, or
- ❑ a graduate student if they are considered by the Faculty Research Committee to meet the requirements for entry.

A graduate student (provisional) becomes a graduate student when registration is confirmed. Applicants not holding an appropriate honours degree or its equivalent shall normally be given provisional registration.

2.6 A candidate shall receive confirmed registration as a graduate student when they:

- ❑ have satisfied the requirements for admission and achieved by work and study a standard recognised by the Faculty Research Committee, or
- ❑ have been accepted for provisional registration in the faculty and have achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee
- ❑ have satisfied the Faculty Research Committee that they are a suitable person to undertake the program
- ❑ have satisfied the Faculty Research Committee that they can devote sufficient time to the research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee shall, in addition to assessing the applicant's suitability, be satisfied that:

- ❑ the proposed program is relevant to the aims and objectives of the University, and
- ❑ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's course lies
 - ☐ a summary of the work to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan
 - ☐ the location at which the work will be undertaken, the amount of time which will be devoted to it and the resources required
 - ☐ details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken
 - ☐ a brief account of industrial experience
 - ☐ a list of publications
 - ☐ sponsorship details
 - ☐ statement of approval by the Head of School and/or Director of Centre
- any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional capacity during the day and carry out their research on a part-time basis at QUT, in their place of employment, or in a sponsoring organisation.

2.10 Full-time students may be on a scholarship from industry or QUT, and may carry out their research at QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their research at QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a candidate may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.11 A candidate may be internal or external. An external candidate is one whose program of research and investigation is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.12 The Faculty Research Committee may cancel a candidate's registration if, after consulting a candidate's supervisors and having taken account of all relevant circumstances, the committee is of the opinion that the candidate either has effectively discontinued their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.13 A candidate whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation, may be re-admitted under such conditions as the Faculty Research Committee shall prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Applied Science (Research) shall undertake a program of research and investigation on a topic approved by the Faculty Research Committee.

3.2 All research activity should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that the research be primarily directed towards industry need.

3.3 The program must be such as to enable the candidate to develop and demonstrate a level of scientific competence significantly higher than that expected of a first degree graduate. The required competence normally would include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist area.

3.4 Where advised, a candidate may be required to complete satisfactorily a qualifying program of formal coursework in subjects relevant to the field of study up to a total class contact of 48 credit points.

3.5 The course of study will normally include:

- ☐ participation in University scholarly activities such as research seminars, teaching and publication
- ☐ regular face-to-face interactions with supervisors, and
- ☐ a program of supervised research and investigation.

The course of study may also include a program of assessed coursework.

3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ☐ as advanced lecture courses
- ☐ as seminars in which faculty and candidates present critical studies of selected problems within the subject field
- ☐ as independent study or reading courses, or
- ☐ as research projects conducted under faculty supervision.

Candidates will be encouraged to attend conferences, where these are related to the field of the research.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.7 Maximum and Minimum Coursework Requirements

Thesis	A minimum of two-thirds of the degree
Maximum coursework requirement ¹	64 credit points
Minimum coursework requirement	10 credit points
Normal coursework expectation	24 to 36 credit points

3.8 Components of Coursework

(a) Compulsory requirement for all students in the Faculty

IFN001 Advanced Information Retrieval Skills	4 credit points
Attendance & participation in School and/or Research Centre or Concentration Seminar/Workshop	6 to 12 credit points

(b) Components determined by School and/or Research Centre or Concentration – Core or elective:

Units accessible by formal graded assessment	24 credit points max
Maximum units assessed by satisfactory/unsatisfactory or merit by student	24 credit points max

¹ Maximum of 16 credit points per semester for each semester enrolled in the program.

Students must contact their Course Coordinator to finalise their program.

4. Period of Time for Completion of Course Study

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be up to two years of full-time study or the part-time equivalent.

4.2 In order to encourage completion of research degrees within a reasonable timeframe, QUT has set a limit of two years on the length of time for which it will fund a faculty for full-time research masters degree candidates.

4.3 A registered graduate full-time student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.

4.4 Time limits are measured in years from the first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or without approval are included.

4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the committee together with the reasons for the delay in completing the course and the expected date of completion. Where the committee agrees to an extension, a time limit will be set for the maximum period of registration in the program.

4.6 Candidates are notified of exclusion from the program by registered mail. They have right of appeal to the Academic Appeals Committee.

5. Supervision

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

5.2 The Principal Supervisor shall normally be from the academic staff of the QUT school in which the candidate is enrolled.

5.3 The Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research, and on continued enrolment.

5.4 The Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research.

6. Place and Conditions of Work

6.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

6.2 The Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:

- ☐ a supporting statement from the Head of School and/or Director of Centre in which

the study is proposed that, in his or her opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that the program is supported, that the school or centre is willing to undertake the responsibility of supervising the work of the applicant, and that resources are available to support the proposed research.

6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:

- a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project, and that they are willing to accept responsibility for supervising the applicant's work, and
- a supporting statement from the head of QUT school or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that the program is supported, and that after examination of the proposed external facilities and supervision the school/centre is willing to accept the responsibility of supervising the work.

7. Thesis

7.1 In the form of presentation, availability and copyright, the thesis shall comply with all the requirements of the document *Requirements for Presenting Theses*.

7.2 Not later than six months after confirmed registration, a candidate shall submit the title of his or her thesis for approval by the Faculty Research Committee, and after approval has been granted, no change shall be made except with the permission of the committee.

7.3 The candidate shall give two months written notice of intention to submit his or her thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

- a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the master degree
- it must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced application of existing knowledge
- it must reach a satisfactory standard of literary presentation
- it shall be the candidate's own account of the work; where work is carried out conjointly with other persons, the Faculty Research Committee shall be advised of the extent of the candidate's contribution to the joint work
- the thesis shall not contain as its main content any work or material which the candidate has previously submitted for another degree or similar award
- the thesis may consist of reports, plans and/or documents or may be supported by these if they have a bearing on the thesis. Other supporting documents such as published papers may also be submitted with the thesis, and
- the thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the Faculty Research Committee the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's

ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.

7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.

7.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

8. Examination of Thesis

8.1 The Faculty Research Committee shall appoint two examiners, of whom at least one shall be from outside the University. No supervisor of the candidate shall be appointed as one of the examiners.

8.2 Normally, examiners must agree to read and report on the thesis within two months of its receipt.

8.3 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree, or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
- (iii) recommend that the thesis not be accepted until major revisions have been made, such revisions might be rewriting one of the sections, with or without additional work, or
- (iv) not accept the thesis and terminate the candidate's registration.

8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

■ Master of Built Environment (BN73)

CITY AND REGIONAL PLANNING MAJOR

Major Discontinued: This Major has been discontinued and there will be no further intakes.

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: Dr John Minnery

Entry Requirements

Applicants for admission should:

- (i) hold a Graduate Diploma in Urban and Regional Planning from QUT, or
- (ii) hold a professional planning degree or diploma from a recognised university, or approved equivalent tertiary institution, and
- (iii) have attained a level of achievement in previous studies which attests to the applicant's ability to undertake successfully a masters program in the field of City and Regional Planning.

Part-Time Course Structure – Continuing Students

Credit Points **Contact Hrs/Wk**

Year 2, Semester 1

PSN001	Applied Research Techniques	6	2
PSN112	Concentration Studies	12	2.5
PSN113	Option Projects	12	2

Year 2, Semester 2

PSN121	Planning Project	24	1
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PROJECT MANAGEMENT MAJOR

Major Discontinued: This major has been discontinued and has been replaced by the Master of Project Management (CN77). There will be no further intakes into this course.

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Coordinator for Project Management Major: Dr Keith Hampson

PROJECT MANAGEMENT SPECIALISATION

Full-Time Course Structure – Continuing Students

Credit Points **Contact Hrs/Wk**

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure – Continuing Students

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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PROPERTY DEVELOPMENT SPECIALISATION

Full-Time Course Structure – Continuing Students

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure – Continuing Students

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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URBAN DESIGN MAJOR

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: Mr Danny O'Hare

Entry Requirements

NORMAL ENTRY

A grade point average of 5.0 or better in the Graduate Diploma in Urban Design at the completion of one semester full-time or two semesters part-time.

Relevant professional activity normally means the areas of architecture, planning and landscape architecture.

PROVISIONAL ENTRY

Applicants with other than normal entry requirements may be registered provisionally in the course if they submit other evidence of academic and professional attainment and candidature is approved by the Dean of the Faculty on the recommendation of the Course Coordinator.

A person provisionally enrolled is required to satisfactorily undertake a qualifying program which may include course units, and/or such other work as is determined before admission is confirmed. Provisional registration in the course will apply for a maximum period of 12 months for both full-time and part-time students.

Articulation to the Masters Program from the Graduate Diploma in Urban Design

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and at the completion of two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the masters level.

Focus in the Masters Program

The masters program includes skills and knowledge development through set coursework in common with the Graduate Diploma in Urban Design, but also requires individual research and the writing of a dissertation.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PSN004	Applied Research Techniques	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP403	Urban Design Conjecture Studio	12	3
PSP405	Urban Design Field Studies	4	10 days
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4	2
PSP416	Computer Aided Data Analysis	2	1
PSP442	Law & Legislation in Urban Design	4	1

Year 1, Semester 2

PSN099	Dissertation	24	
PSP402	Urban Design Context Studio	12	3
Plus a selection of the following totalling a minimum of 12 credit points:			
PSN002	Concentration Studies A	4	1
PSN003	Concentration Studies B	8	2
PSP011	Conservation Theory	3	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1
Elective Unit/s			

Part-Time Course Structure

Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1

Year 1, Semester 2

PSN004	Applied Research Techniques	4	1
PSP402	Urban Design Context Studio	12	3
PSP405	Urban Design Field Studies	4	10 days

Plus a selection from the following totalling at least 4 credit points:

PSP011	Conservation Theory	3	1
PSP416	Computer Aided Data Analysis	2	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1

Year 2, Semester 1

PSP403	Urban Design Conjecture Studio	12	3
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Plus a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4	2
PSP416	Computer Aided Data Analysis	2	1
PSP442	Law & Legislation in Urban Design	4	1

Year 2, Semester 2

PSN099	Dissertation	24	
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■ Master of Engineering (BN72)

Location: Gardens Point campus

Introduction

The objectives of the program are:

- to provide for postgraduate educational opportunities in design, investigation, development, research or any combination thereof, directly related to professional engineering practice, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge
- to provide further education in research methods
- to further relationships between the University and industry or other external agencies involved in engineering to their mutual advantage, and
- to provide formal recognition of work of an advanced nature.



1. General Conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act 1988.

1.2 The Council's power to approve recommendations from faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedures relating to research degrees is exercised through a Research Management Committee which is a subcommittee of the Academic Committee.

1.3 The Research Management Committee has delegated responsibility for day-to-day administration of research masters degree courses to faculty academic boards. Academic boards shall report biannually to the Research Management Committee on progress made by research masters degree candidates.

1.4 This program is administered by the Academic Board of the Faculty of Built Environment and Engineering through its Faculty Research Committee. The program is offered in Civil, Electrical and Electronic Systems, and Mechanical and Manufacturing Engineering.

1.5 In order to qualify for the award of the degree of Master of Engineering a candidate must:

- ☐ have completed the approved program involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment and Engineering Academic Board
- ☐ have submitted and the Faculty Research Committee accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the Thesis Panel
- ☐ have completed such other work as may be prescribed by the Faculty Research Committee, and
- ☐ submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.

2. Registration

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 There is a six month maximum period between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Engineering before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

2.4 Normal admission will require the candidate to have at least an Honours 2A degree in a bachelor degree in Engineering from the Queensland University of Technology or a qualification judged equivalent by the Faculty Research Committee.

Entry to the program may be allowed to candidates without an Honours 2A degree if the candidate has a grade point average of 5.0 or better in the coursework component of a masters degree program or a graduate diploma program in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Engineering program without the minimum entry requirement may present a case for admission based on the submission of evidence of qualifications which demonstrate the applicant's capacity to pursue the course of study.

The case may be based on the following:

- (i) three years professional experience in the general field in which the proposed work lies, or
- (ii) satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
- (iii) the submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a division of engineering in which the applicant has worked as a professional engineer in a position of responsibility; this knowledge should be relevant to the field of study proposed.

2.5 A candidate shall be registered initially as:

- ☐ a graduate student (provisional) if they are to undertake an appropriate qualifying program, or
- ☐ a graduate student if they are considered by Faculty Research Committee to meet the requirements for entry.

A graduate student (provisional) becomes a graduate student when registration is confirmed. Applicants not holding an appropriate honours degree or its equivalent shall normally be given provisional registration.

2.6 A candidate shall receive confirmed registration as a graduate student when they:

- ☐ have satisfied the requirements for admission and achieved by work and study a standard recognised by the Faculty Research Committee, or
- ☐ have been accepted for provisional registration in the faculty and have achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee
- ☐ have satisfied the Faculty Research Committee that they are a suitable person to undertake the program
- ☐ have satisfied Faculty Research Committee that they can devote sufficient time to the research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee shall, in addition to assessing the applicant's suitability, be satisfied that:

- ☐ the proposed program is relevant to the aims and objectives of the University, and
- ☐ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's course lies
- ☐ a summary of the work to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program, its background, the significance and possible application of the research program, and the research plan
- ☐ the location at which the work will be undertaken, the amount of time which will be devoted to it, and the resources required
- ☐ details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken
- ☐ a brief account of industrial experience

- ☐ a list of publications
- ☐ sponsorship details
- ☐ statement of approval by the Head of School and/or Director of Centre, and
- ☐ any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional engineering capacity during the day and carry out their research projects on a part-time basis at QUT, in their place of employment, or in a sponsoring organisation.

2.10 Full-time students may be on a scholarship from industry or QUT, and may carry out their projects at QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their research projects at QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a candidate may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.11 A candidate may be internal or external. An external candidate is one whose program of research is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.12 The Faculty Research Committee may cancel a candidate's registration if, after consulting a candidate's supervisors and having taken account of all relevant circumstances, the committee is of the opinion that the candidate either has effectively discontinued their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.13 A candidate whose registration has lapsed or has been cancelled and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation may be re-admitted under such conditions as the Faculty Research Committee shall prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Engineering will undertake necessary project work in design, investigation and research and/or development work on a topic approved by the Faculty Research Committee.

3.2 All projects should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that projects be primarily directed towards industry need.

3.3 The program must be such as to enable the candidate to develop and demonstrate a level of scientific competence significantly higher than that expected of a first degree graduate. The required competence normally would include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist engineering area.

3.4 Where advised, a candidate may be required to complete satisfactorily a qualifying program of formal coursework in units relevant to the field of study up to a total class contact of 48 credit points.

3.5 The course of study normally will include:

- ☐ participation in University scholarly activities such as research seminars, teaching and publication
- ☐ regular face-to-face interactions with supervisors, and

- a program of supervised research and investigation.

The course of study may also include a program of assessed coursework.

3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- as advanced lecture courses
- as seminars in which faculty and candidates present critical studies of selected problems within the subject field
- as independent study or reading courses, or
- as research projects conducted under faculty supervision.

Candidates will be encouraged to attend conferences where these are related to the field of the research.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material, and the method of assessment of progress through and at the end of the course.

3.7 Maximum and Minimum Coursework Requirements

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Maximum coursework requirement ¹	64 credit points
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(a) Compulsory requirement for all students in the Faculty

IFN001 Advanced Information Retrieval Skills	4 credit points
Attendance & participation in School and/or Research Centre or Concentration Seminar/Workshop	6 to 12 credit points

(b) Components determined by School and/or

Research Centre or Concentration – Core or elective:	
Units accessible by formal graded assessment	24 credit points max
Maximum units assessed by satisfactory/unsatisfactory or merit by student	24 credit points max
Specific tailor-made reading courses supervised by supervising panel or individual member of staff	24 credit points max

Students must contact their Course Coordinator to finalise their program.

4. Period of Time for Completion of Course Study

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be up to two years of full-time study or the part-time equivalent.

4.2 In order to encourage completion of research degrees within a reasonable timeframe, QUT has set a limit of two years on the length of time for which it will fund a faculty for full-time research masters degree candidates.

4.3 A registered graduate full-time student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed

¹ Maximum of 16 credit points per semester for each semester enrolled in the program.

from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.

4.4 Time limits are measured in years from the first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or without approval are included.

4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the committee together with the reasons for the delay in completing the course and the expected date of completion. Where the committee agrees to an extension, a time limit will be set for the maximum period of registration in the program.

4.6 Candidates are notified of exclusion by registered mail. They have right of appeal to the Academic Appeals Committee.

5. Supervision

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

5.2 The Principal Supervisor shall normally be from the academic staff of the QUT school in which the candidate is enrolled.

5.3 The Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research project and on continued enrolment.

5.4 The Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research project.

6. Place and Conditions of Work

6.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

6.2 The Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:

- ☐ a supporting statement from the head of school and/or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the masters degree, that the program is supported, that the school or centre is willing to undertake the responsibility of supervising the work of the applicant, and that resources are available to support the proposed research.

6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:

- ☐ a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project, and that they are willing to accept responsibility for supervising the applicant's work, and
- ☐ a supporting statement from the head of QUT school or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable person to

undertake a research program leading to the masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school/centre is willing to accept the responsibility of supervising the work.

7. Thesis

7.1 In the form of presentation, availability and copyright, the thesis shall comply with all the requirements of the document *Requirements for Presenting Theses*.

7.2 Not later than six months after confirmed registration, a candidate shall submit the title of their thesis for approval by the Faculty Research Committee, and after approval has been granted, no change will be made except with the permission of the Committee.

7.3 The candidate shall give two months written notice of intention to submit their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

- ☐ a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the masters degree
- ☐ it must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced application of existing knowledge
- ☐ it must reach a satisfactory standard of literary presentation
- ☐ it shall be the candidate's own account of the work; where work is carried out conjointly with other persons, the Faculty Research Committee shall be advised of the extent of the candidate's contribution to the joint work
- ☐ the thesis shall not contain as its main content any work or material which the candidate has previously submitted for another degree or similar award
- ☐ the thesis may consist primarily of reports, plans and/or documents or may be supported by these if they have a bearing on the subject of the thesis; other supporting documents such as published papers may also be submitted with the thesis, and
- ☐ the thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the Faculty Research Committee the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.

7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.

7.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis during which time the thesis will be held on restricted access in the QUT Library.

8. Examination of Thesis

8.1 The Faculty Research Committee shall appoint two/three examiners, of whom at least

one shall be from outside of the University. No supervisor of the candidate shall be appointed as one of the examiners.

8.2 Normally, examiners must agree to read and report on the thesis within two months of its receipt.

8.3 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree, or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
- (iii) recommend that the thesis not be accepted until major revisions have been made; such revisions might be rewriting one of the sections, with or without additional work, or
- (iv) not accept the thesis and terminate the candidate's registration.

8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

■ Master of Engineering Science (Civil) (CE74)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Robin Black

Entry Requirements

Entrants to the masters degree program must either:

- (i) have obtained a Bachelor of Engineering degree with honours in Civil Engineering, or
- (ii) have obtained a Graduate Diploma with a grade point average of at least 5.0 on a 7 point scale.

Where entrants do not have honours ranking in their Bachelor of Engineering (Civil) degree and/or have not undertaken units equivalent to the available QUT undergraduate units in their chosen area of study, the Head of School may require that additional undergraduate units be undertaken.

Entrants may transfer from the Graduate Diploma in Municipal Engineering (CE63) with a grade point average of at least 5.0 after completion of 50 per cent of the coursework for the Graduate Diploma. In so doing students must comply with rule 4.1.1 of the Student Rules which states 'for courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one half of the credit points required for course completion'.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in...".

Course Structure

The course consists of a minimum of 96 credit points. Either 36 or 20 credit points are allocated to a project and the remainder to the non-project units. The majority of the units are common with the Graduate Diploma in Municipal Engineering (CE63). Students who do not wish to undertake a major must complete the core units plus any other combination of units, to make up the minimum total of 96 credit points. Such programs should be devised in consultation with the Course Coordinator.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEP131	Engineering Management & Administration	12	3
	Units chosen from major	12	
Year 1, Semester 2			
CEP200	Process Modelling	8	2
	Units chosen from major	16	
Year 2, Semesters 1 and 2			
Select one of the following options:			
<i>Option 1</i>			
CEP999/1/2	Project A ²	36	9
	Units chosen from major totalling	12	
<i>Option 2</i>			
CEP998/1/2	Project B ²	20	5
	Units chosen from major totalling	28	

		Year and Semester of Offer	Credit Points	Contact Hrs/Wk
ENVIRONMENTAL ENGINEERING MAJOR (EVN)				
Compulsory units:				
CEP172	Water Quality Engineering	even, 1	8	2
CEP277	Waste Management	even, 2	12	3
CEP290	Environmental Law & Assessment ³	odd, 2	8	2
Choose remaining units from the following:				
CEP128	Municipal Engineering Planning	even, 1	12	3
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP310	Urban Transportation Planning	even, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2
CHP691	Environmental Chemistry	even, 2	8	2
LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)				
Compulsory units:				
CEP107	Construction Management & Economics	odd, 1	8	2
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP128	Municipal Engineering Planning	even, 1	12	3
Choose remaining units from the following:				
CEP109	Municipal Law & Regulations	even, 2	8	2
CEP174	Public Health Engineering Practice	even, 1	12	3
CEP290	Environmental Law & Assessment ³	odd, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2

² Safety boots must be worn for practical exercises and field trips.

³ CEP290 Environmental Law and Assessment may be offered in even years, semester two, in conjunction with a Bachelor of Engineering elective unit.

PUBLIC HEALTH ENGINEERING MAJOR (PHN)

Compulsory units:

CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3

Choose remaining units from any other major.

TRANSPORTATION ENGINEERING MAJOR (TRN)

Compulsory units:

CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP215	Advanced Traffic Engineering	odd, 2	8	2
CEP218	Transportation Engineering	even, 1	12	3

Choose remaining units from the following:

CEP310	Urban Transportation Planning	even, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2
	Units from any other major			

■ Master of Engineering Science (Computer and Communication Engineering) (EE75)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Anthony Maeder

Entry Requirements

- Bachelor degree in Engineering with at least second class honours or equivalent, or
- Bachelor degree in Engineering or equivalent together with successful completion of the Masters Qualifying program
- Graduate Diploma in Computer Engineering with a grade point average (GPA) of 5.0 (credit level) or higher will meet the entry requirements for admission to the Master of Engineering Science (Computer Engineering Stream) Upgrade Program.

Streams

Two streams are offered in the course: Computer Engineering and Communication Engineering. Students enrol in units in the stream they wish to pursue, provided they have the necessary background from undergraduate units.

Masters Qualifying Program

Applicants who do not meet the entry requirements for the Master of Engineering Science (Computer and Communication Engineering) outlined in (i) above, may be permitted to follow the first semester of the Graduate Diploma in Computer Engineering. If in this first semester a GPA of 5.0 or above is attained, candidates will be allowed to convert to the Masters program. Otherwise they will continue their studies in the Graduate Diploma in Computer Engineering towards that award.

Masters Upgrade Program

Those who have completed the requirements for Graduate Diploma in Computer Engineering with a GPA of 5.0 or above may upgrade to the Masters program by undertaking

further study in the Master of Engineering Science (Computer Engineering Stream) and be given credit for the units which they have completed at Graduate Diploma level. The structure of the course dictates that this upgrade program be undertaken on a part-time basis.

Students undertaking the Masters Upgrade Program will enrol in the following units:

		Credit Points	Contact Hrs/Wk
EEP301	Project	12	3
EEP302	Research Component 1 (Computer Engineering Stream)	12	3

Method of Assessment

Assessment is undertaken in six coursework units and two research units. Coursework units in the Computer Engineering Stream are common with the Graduate Diploma in Computer Engineering. Coursework units in the Communication Engineering Stream are specialised for that stream. Candidates for Master of Engineering Science are required to maintain a GPA of 5.0 or above in coursework units to qualify for the degree. One of the research units comprises an additional research training component associated with each coursework unit. The other research unit comprises a research project, undertaken individually by students.

COMPUTER ENGINEERING STREAM

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEP101	Algorithms for Control Engineering	12	3
EEP102	Unix & C for Engineers	12	3
EEP124	Data Communications	12	3
Select one unit from the following:			
EEP129	Image Processing and Computer Vision	12	3
EEP137	Advanced Topic A	12	3

Year 1, Semester 2

EEP104	Real-time Operating Systems	12	3
EEP301	Project	12	3
EEP302	Research Component 1	12	3
Select one unit from the following:			
EEP120	Networks & Distributed Computing	12	3
EEP127	Advanced Topic B	12	3

Part-Time Course Structure

Year 1, Semester 1

EEP101	Algorithms for Control Engineering	12	3
Select one unit from the following:			
EEP102	Unix & C for Engineers	12	3
EEP137	Advanced Topic A	12	3

Year 1, Semester 2

EEP104	Real-time Operating Systems	12	3
Select one unit from the following:			
EEP120	Networks & Distributed Computing	12	3
EEP127	Advanced Topic B	12	3

Year 2, Semester 1

EEP124	Data Communications	12	3
EEP129	Image Processing and Computer Vision	12	3

Year 2, Semester 2

EEP301	Project	12	3
EEP302	Research Component 1	12	3

COMMUNICATION ENGINEERING STREAM**Full-Time Course Structures****Year 1, Semester 1**

EEP126	Communications Digital Signal Processing	12	3
EEP135	Advanced Digital Signal Processing	12	3
EEP137	Advanced Topic A	12	3
	Mathematics Elective Unit	12	

Year 1, Semester 2

EEP127	Advanced Topic B	12	3
EEP128	Detection & Estimation	12	3
EEP301	Project	12	3
EEP303	Research Component 2	12	3

Part-Time Course Structure**Year 1, Semester 1**

EEP126	Communications Digital Signal Processing	12	3
EEP135	Advanced Digital Signal Processing	12	3

Year 1, Semester 2

EEP127	Advanced Topic B	12	3
EEP128	Detection & Estimation	12	3

Year 2, Semester 1

EEP137	Advanced Topic A	12	3
	Mathematics Elective Unit	12	

Year 2, Semester 2

EEP301	Project	12	3
EEP303	Research Component 2	12	3

Advanced Topics A & B Unit List

Advanced Topics will vary from year to year depending on staff areas of interest.

They may include topics from the following list. Only one of these units will be offered per semester:

Adaptive Filtering & Array Processing
 Digital Spectral Analysis
 Stochastic Processes
 Parallel and Supercomputing
 Advanced Engineering Software Tools
 Process Control and Robotics
 Computer Hardware and Interfacing
 OR
 Core units of other stream
 Mathematics Elective Units

Students are to consult the Course Coordinator regarding the selection of an appropriate mathematics unit prior to enrolling.

■ Master of Engineering Science in Electricity Supply Engineering (EE78)

Location: Gardens Point Campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$142 per credit point plus a \$1000 thesis supervision charge

Course Coordinator: Mr David Birtwhistle

Entry Requirements

- (i) a Bachelor degree in Electrical Engineering and at least second class honours with a study of power units to third year level, or
- (ii) students with the degree qualification, but who do not have second class honours may transfer from the Graduate Diploma (Electricity Supply) after completing 48 credit points with a grade point average (GPA) of 5.0 or greater
- (iii) students seeking admission to Master of Engineering Science will only be enrolled if they have a firm offer of a supervised industry placement.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
12 Units (selected from List 1)	48	12
Year 1, Semester 2		
EEP230 Thesis A ⁴	12	3
EEP231 Thesis B ⁴	12	3
6 Units (selected from List 1)	24	6

Part-Time Course Structure

Year 1, Semester 1		
6 Units (selected from List 1)	24	6
Year 1, Semester 2		
6 Units (selected from List 1)	24	6
Year 2, Semester 1		
EEP230 Thesis ⁴	12	3
3 Units (selected from List 1)	12	3
Year 2, Semester 2		
EEP231 Thesis B ⁴	12	3
3 Units (selected from List 1)	12	3

List 1: Units	Weeks	Credit Points	Contact Hrs/Wk
Semester 1			
EEP201 Fundamentals of Power System Earthing	1-5	4	3
EEP202 Thermal Ratings & Heat Transfer	1-5	4	3
EEP204 Power System Load Flow Analysis	1-5	4	3
EEP213 Statistics	1-5	4	3
EEP203 Testing & Condition Monitoring	6-10	4	3
EEP205 Power System Fault Calculations	6-10	4	3
EEP208 Economic Analysis for Power Systems Engineers	6-10	4	3
EEP210 Abnormal System Voltages	6-10	4	3
EEP206 Project Management	11-15	4	3
EEP209 Power System Harmonics	11-15	4	3
EEP218 Introduction to Automated System Control & Supervisory Systems	11-15	4	3

⁴ Students must complete 100 days of supervised professional practice. The thesis is related to this industry experience.

EEP219	High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3
Semester 2				
EEP207	Overhead Transmission Line Route Selection	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3
EEP215	Reliability	1-5	4	3
EEP221	Limits to Power System Stability	1-5	4	3
EEP212	Advanced Power System Protection	6-10	4	3
EEP214	Risk Assessment in the Electricity Supply Industry	6-10	4	3
EEP216	Transmission Line Design-Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP217	Transmission Line Design-Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3

Units being offered for Distance Education (anticipated availability early 1995)⁵:

	Credit Points
EEP201	Fundamentals of Power System Earthing
EEP202	Thermal Ratings and Heat Transfer
EEP204	Power System Load Flow Analysis
EEP205	Power System Fault Calculation
EEP206	Project Management
EEP207	Overhead Transmission Line Route Selection
EEP208	Economic Analysis for Power System Engineers
EEP209	Power System Harmonics
EEP210	Abnormal System Voltages
EEP213	Statistics
EEP214	Risk Management in the Electricity Supply Industry
EEP215	Reliability
EEP218	Introduction to Automated System Control & Supervisory Systems

■ Master of Engineering Science (Engineering Management) (ME76)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time, 2 years part-time (block release)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Nick Hastings

Entry Requirements

- a bachelor's degree in Engineering (or its equivalent) with honours, or
- a bachelor's degree in Engineering (or its equivalent), together with a relevant graduate diploma or qualifying program with a grade point average of 5.0 or better, or
- a bachelor's degree in Engineering (or its equivalent), together with at least three

⁵ Subject to University approval.

years' industrial experience, and potential demonstrated through professional activity to undertake a masters degree course.

Part-time students are expected to be employed in some professional engineering capacity during the day and to carry out their QUT studies at night. Students taking the block release option will need to be available for two intensive periods (one week and two weeks) per year for two years. The periods will normally be held in the mid-semester break in semester 1 and in the second and third weeks of the break between semesters 1 and 2.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
HRN113	Management for Engineers	12	3
MEN280	Engineering Project Management	12	3
Select two units from the following:			
MEN190/1	Project ⁶	12	3
MEN140	Reliability and Maintenance Optimisation	12	3
MEN171	Advanced Manufacturing Technologies	12	3
Semester 2			
FNN113	Managerial Accounting for Engineers	12	3
MEN170	Systems Modelling and Simulation	12	3
Select two units from the following:			
MEN190/2	Project ⁶	12	3
MEN240	Maintenance Management and Technology	12	3
MEN270	Manufacturing Resource Planning	12	3

BUILT
ENVIRONMENT
& ENGINEERING

Part-Time Course Structure

Year 1, Semester 1

HRN113	Management for Engineers	12	3
MEN280	Engineering Project Management	12	3

Year 1, Semester 2

FNN113	Managerial Accounting for Engineers	12	3
MEN170	Systems Modelling and Simulation	12	3

Year 2, Semester 1

Select two units from the following:			
MEN140	Reliability and Maintenance Optimisation	12	3
MEN171	Advanced Manufacturing Technologies	12	3
MEN190/1	Project ⁶	12	3

Year 2, Semester 2

Select two units from the following:			
MEN240	Maintenance Management and Technology	12	3
MEN270	Manufacturing Resource Planning	12	3
MEN190/2	Project ⁶	12	3

Block Release (Part-Time) Course Structure

Year 1, Semester 1 (April block)

HRN113	Management for Engineers	12	3
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Year 1, Semester 2 (June-July block)

FNN113	Managerial Accounting for Engineers	12	3
MEN280	Engineering Project Management	12	3

⁶ Students must take MEN190/1 and MEN190/2 unless they obtain the permission of the Head of School, Mechanical and Manufacturing Engineering not to do so. Students taking the course by block release are normally expected to take MEN190.

Year 2, Semester 1 (April block)

MEN190/1	Project ⁶	12	3
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Select one unit from the following:

MEN140	Reliability & Maintenance Optimisation	12	3
MEN171	Advanced Manufacturing Technologies	12	3

Year 2, Semester 2 (June-July block)

MEN190/2	Project ⁶	12	3
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MEN170	Systems Modelling and Simulation	12	3
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Select one unit from the following:

MEN240	Maintenance Management and Technology	12	3
MEN270	Manufacturing Resource Planning	12	3

■ Master of Project Management (CN77)

Location: Gardens Point campus

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Keith Hampson *Steve Kajewski*

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Master of Project Management who are graduates of the Graduate Diploma in Project Management will be required to complete CNN441 (one semester full-time) or CNN442 (two semesters part-time).

Entry Requirements

Applicants for admission shall hold:

- (i) a bachelor degree and demonstrated potential in professional activity to undertake a masters degree course, or
- (ii) a bachelor degree and a relevant graduate diploma or qualifying program with a grade point average of 5.0 or better, or
- (iii) qualifications deemed equivalent to (i) or (ii) by the Dean of Faculty on the recommendation of the Course Coordinator, and
- (iv) shall normally have at least three years of appropriate industry experience after graduation.

As the coursework of the Graduate Diploma in Project Management and the Master of Project Management are identical, students may transfer from the graduate diploma to the masters degree program providing that they have a grade point average of 5.0 or better and quota places are available. Students are normally required to apply for transfer at the completion of a minimum of one semester (48 credit points) of the Graduate Diploma.

At the completion of the coursework component of the masters degree program but before the completion of the Dissertation, students have the option of electing to graduate with the Graduate Diploma in Project Management.

The Graduate Diploma in Project Management has majors in Project Management and

⁶ Students must take MEN190/1 and MEN190/2 unless they obtain the permission of the Head of School, Mechanical and Manufacturing Engineering not to do so. Students taking the course by block release are normally expected to take MEN190.

Property Development. These areas are also available as majors within the masters degree program.

Note: Whilst the unit CNN441 (or CNN442) Dissertation incorporates the unit IFN001 Advanced Information Retrieval Skills, it is recommended that IFN001 be completed prior to the commencement of the masters degree program or as early in the first semester as possible. The credit point value of IFN001 is incorporated in the credit point value of CNN441 (or CNN442).

All units shown are compulsory core units. Students may undertake additional elective units or replace core units for which credit has been formally approved with other units available throughout the University. These units should be offered at a postgraduate level, or in some cases, at an advanced undergraduate level. Variations to the recommended study program require prior approval from the Course Coordinator.

PROJECT MANAGEMENT MAJOR

Full-Time Course Structure

Year 1, Semester 1

CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
	Two electives selected from List A	12	

Year 1, Semester 2

CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
	Two electives selected from List B	12	

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure

Year 1, Semester 1

CNP429	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
	An elective unit selected from List A	6	2

Year 1, Semester 2

CNP406	International Project Management	6	2
CNP431/2	Project Management	6	2
	An elective unit selected from List B	6	2

Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP433/1	Project Management Law	6	2
	An elective unit selected from List A	6	

Year 2 Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP433/2	Project Management Law	6	2
	An elective unit selected from List B	6	

Year 3, Semester 1			
CNN442/1	Dissertation	24	2
Year 3, Semester 2			
CNN442/2	Dissertation	24	2
LIST A: Semester 1 Elective Units			
CNP400	Management of Technology	6	2
CNP402	Principles of Valuation	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP417	Design Management	6	2
CNP439	Property Management	6	2
LIST B: Semester 2 Elective Units			
CNP404	Advanced Land Development	6	2
CNP422	Specialist Valuation	6	2
CNP667	Applied Computing	6	2

PROPERTY DEVELOPMENT MAJOR

Full-Time Course Structure

Year 1, Semester 1			
CNP402	Principles Of Valuation	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2
	Two electives selected from List C	12	4
Year 1, Semester 2			
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP438	Real Estate Investment Analysis	6	2
	Two electives selected from List D	12	4

Year 2, Semester 1			
CNN441	Dissertation	48	

Part-Time Course Structure

Year 1, Semester 1			
CNP402	Principles Of Valuation	6	2
CNP426/1	Project Development	6	2
CNP431/1	Project Management	6	2
CNP437	Field Trip	6	4 days
	An elective unit selected from List C	6	2
Year 1, Semester 2			
CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP438	Real Estate Investment Analysis	6	2
Year 2, Semester 1			
CNP430/1	Current Issues	6	2
CNP433/1	Project Management Law	6	2
CNP439	Property Management	6	2
	An elective unit selected from List C	6	2
Year 2, Semester 2			
CNP430/2	Current Issues	6	2
CNP433/2	Project Management Law	6	2
	Two electives selected from List D	12	4

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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LIST C: Semester 1 Elective Units

CNP400	Management of Technology	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP417	Design Management	6	2
CNP429	Cost Management & Economics	6	2
CNP434	Time Management	6	2

LIST D: Semester 2 Elective Units

CNP404	Advanced Land Development	6	2
CNP406	International Project Management	6	2
CNP422	Specialist Valuation	6	2
CNP667	Applied Computing	6	2

■ Graduate Diploma in Computer Engineering (EE65)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Wilson

Entry Requirements

Applicants must hold a Bachelor's degree in Engineering or Computer Science. Applicants possessing a degree in other areas of technology such as Mathematics, Physics or Chemistry may be required to undertake prerequisite undergraduate units.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEP101	Algorithms for Control Engineering	12	3
EEP102	Unix & C for Engineers	12	3
EEP124	Data Communications	12	3
EEP129	Image Processing & Computer Vision	12	3
Year 1, Semester 2			
EEP103	Computer Hardware & Interfacing	12	3
EEP104	Real-time Operating Systems	12	3
EEP120	Networks & Distributed Computing	12	3
EEP123	Process Control & Robotics	12	3
Part-Time Course Structure			
Year 1, Semester 1			
EEP101	Algorithms for Control Engineering	12	3
EEP102	Unix & C for Engineers	12	3
Year 1, Semester 2			
EEP103	Computer Hardware & Interfacing	12	3
EEP104	Real-time Operating Systems	12	3
Year 2, Semester 1			
EEP124	Data Communications	12	3
EEP129	Process Control & Robotics	12	3

Year 2, Semester 2

EEP120	Network & Distributed Computing	12	3
EEP123	Process Control & Robotics	12	3

■ Graduate Diploma in Electricity Supply Engineering (EE60)**Location:** Gardens Point campus**Course Duration:** 1 year full-time, 2 years part-time**Total Credit Points:** 96**Standard Credit Points/Full-Time Semester:** 48**Tuition Fees (Domestic Students):** \$142 per credit point**Course Coordinator:** Mr David Birtwhistle**Entry Requirements**

A Bachelor degree in Electrical Engineering with a study of power units to third year level.

Full-Time Course Structure	Credit Points
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Year 1, Semester 1	
12 Units (selected from List 1)	48
Year 1, Semester 2	
12 Units (selected from List 1)	48

Part-Time Course Structure

Year 1, Semester 1	
6 Units (selected from List 1)	24
Year 1, Semester 2	
6 Units (selected from List 1)	24
Year 2, Semester 1	
6 Units (selected from List 1)	24
Year 2, Semester 2	
6 Units (selected from List 1)	24

LIST 1: UNITS	Weeks	Credit Points	Contact Hrs/Wk
Semester 1			
EEP201 Fundamentals of Power System Earthing	1-5	4	3
EEP202 Thermal Ratings & Heat Transfer	1-5	4	3
EEP204 Power System Load Flow Analysis	1-5	4	3
EEP213 Statistics	1-5	4	3
EEP203 Testing & Condition Monitoring	6-10	4	3
EEP205 Power System Fault Calculations	6-10	4	3
EEP208 Economic Analysis for Power Systems Engineers	6-10	4	3
EEP210 Abnormal System Voltages	6-10	4	3
EEP206 Project Management	11-15	4	3
EEP209 Power System Harmonics	11-15	4	3
EEP218 Introduction to Automated System Control & Supervisory Systems	11-15	4	3
EEP219 High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3

Semester 2

EEP207	Overhead Transmission Line Route Selection	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3
EEP215	Reliability	1-5	4	3
EEP221	Limits to Power System Stability	1-5	4	3
EEP212	Advanced Power System Protection	6-10	4	3
EEP214	Risk Assessment in the Electricity Supply Industry	6-10	4	3
EEP216	Transmission Line Design – Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP217	Transmission Line Design – Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3

Units being offered for Distance Education (anticipated availability early 1995)⁵:

		Credit Points
EEP201	Fundamentals of Power System Earthing	4
EEP202	Thermal Ratings and Heat Transfer	4
EEP204	Power System Load Flow Analysis	4
EEP205	Power System Fault Calculation	4
EEP206	Project Management	4
EEP207	Overhead Transmission Line Route Selection	4
EEP208	Economic Analysis for Power System Engineers	4
EEP209	Power System Harmonics	4
EEP210	Abnormal System Voltages	4
EEP213	Statistics	4
EEP214	Risk Assessment in the Electricity Supply Industry	4
EEP215	Reliability	4
EEP218	Introduction to Automated System Control & Supervisory Systems	4

■ Graduate Diploma in Industrial Design (AR61)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Vesna Popovic

Entry Requirements

To be eligible for admission, an applicant must:

- hold an approved degree or diploma from a recognised tertiary institution, or
- have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Industrial Design has been accredited by the Design Institute of Australia (DIA). Graduates are eligible for Associate membership on graduation.

⁵ Subject to University approval.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Semester 1**

ARP613	Advanced Ergonomics 1	6	2
ARP642	Case Studies	6	2
ARP672	Industrial Design 1	12	6
ARP674	Industrial Design Research 1	18	8
ARP676	Advanced Computer-aided Industrial Design 1	6	2

Semester 2

ARP623	Advanced Ergonomics 2	6	2
ARP654	Professional Practice & Management	6	2
ARP673	Industrial Design 2	12	6
ARP675	Industrial Design Research 2	18	8
ARP677	Advanced Computer-aided Industrial Design 2	6	2

Part-Time Course Structure**Year 1, Semester 1**

ARP613	Advanced Ergonomics 1	6	2
ARP672	Industrial Design 1	12	6
ARP676	Advanced Computer-aided Industrial Design 1	6	2

Year 1, Semester 2

ARP623	Advanced Ergonomics 2	6	2
ARP673	Industrial Design 2	12	6
ARP677	Advanced Computer-aided Industrial Design 2	6	2

Year 2, Semester 1

ARP642	Case Studies	6	2
ARP674	Industrial Design Research 1	18	8

Year 2, Semester 2

ARP654	Professional Practice & Management	6	2
ARP675	Industrial Design Research 2	18	8

■ Graduate Diploma in Interior Design (AR62)**Location:** Gardens Point campus**Course Duration:** 1 year full-time, 2 years part-time**Total Credit Points:** 96**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Mr Peter Hedley**Entry Requirements**

To be eligible for admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Interior Design is currently being accredited by the Design Institute of Australia.

Full-Time Course Structure**Credit
Points****Contact
Hrs/wk****Semester 1**

ARP502	Advanced Interior Design 1	18	7
ARP506	Brief Development	8	2

ARP507	Professional Practice for Interior Designers	12	4
ARP601	Setting the Scene	10	3

Semester 2

ARP503	Advanced Interior Design 2	18	6
ARP604	Conservation of Historic Interiors	14	6
ARP605	Building Evaluation	8	2
ARP606	Elective Unit	8	2

Part-Time Course Structure

Year 1, Semester 1

ARP502	Advanced Interior Design 1	18	7
ARP506	Brief Development	8	2

Year 1, Semester 2

ARP503	Advanced Interior Design 2	18	6
ARP605	Building Evaluation	8	2

Year 2, Semester 1

ARP507	Professional Practice for Interior Designers	12	4
ARP601	Setting the Scene	10	3

Year 2, Semester 2

ARP604	Conservation of Historic Interiors	14	6
ARP606	Elective Unit	8	2

Elective Units

All electives undertaken must have the prior approval of the Course Coordinator.

■ Graduate Diploma in Landscape Architecture (PS66)

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr George Williams

Entry Requirements

To be eligible for normal admission, an applicant must:

- (i) hold a degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by a course of study or examination.

Special entry provisions also apply. Prior to beginning studies in the course (but not necessarily prior to application for admission) applicants are required to have appropriate skills and knowledge in basic design/perception, free-hand graphics, and technical drawing.

Graduates of the Bachelor of Built Environment (Landscape Architecture) are credited with Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds may be granted credit as appropriate to their education and experience.

Professional Recognition

The Graduate Diploma in Landscape Architecture is accredited by the Australian Institute of Landscape Architects.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

PSP011	Conservation Theory	3	1
PSP210	History of Landscape Design	3	2
PSP212	User & Character Design Studies	12	6
PSP220	Introduction to Practice 1	6	3
PSP230	Landscape Ecology 1	6	4
PSP240	Landscape Graphics 1	6	3
PSP250	Map & Air Photo Interpretation	3	1
PSP251	Landscape Construction 1	9	4

Year 1, Semester 2

PSP019	Planting Design	3	1
PSP213	Site Planning	12	4
PSP221	Introduction to Practice 2	6	3
PSP232	Landscape Ecology 2	9	3
PSP233	Impacts & Assessment	3	2
PSP241	Landscape Graphics 2	6	2
PSP252	Landscape Construction 2	9	3

Year 2, Semester 1

PSP214	Residential Landscape Design	12	3
PSP215	Urban Landscape Design	12	3
PSP222	Landscape Practice 1	6	2
PSP234	Landscape Management A	6	4
PSP242	Advanced Landscape Graphics	6	2
PSP253	Advanced Landscape Construction 1	6	3

Year 2, Semester 2

PSP216	Landscape Planning	12	4
PSP217	Landscape Design	18	5
PSP223	Landscape Practice 2	3	2
PSP235	Landscape Management B	6	4
PSP254	Advanced Landscape Construction 2	6	3
PSP260	School Field Trip	3	7-10 days

Part-Time Course Structure**Year 1, Semester 1**

PSP210	History of Landscape Design	3	2
PSP220	Introduction to Practice 1	6	3
PSP230	Landscape Ecology 1	6	4
PSP240	Landscape Graphics 1	6	3
PSP250	Map & Air Photo Interpretation	3	1

Year 1, Semester 2

PSB019	Planting Design	3	1
PSP221	Introduction to Practice 2	6	3
PSP232	Landscape Ecology 2	9	3
PSP241	Landscape Graphics 2	6	2

Year 2, Semester 1

PSP011	Conservation Theory	3	1
PSP212	User & Character Design Studies	12	6
PSP251	Landscape Construction 1	9	4

Year 2, Semester 2

PSP213	Site Planning	12	4
PSP233	Impacts & Assessment	3	2
PSP252	Landscape Construction 2	9	3

Year 3, Semester 1

PSP214	Residential Landscape Design	12	3
PSP242	Advanced Landscape Graphics	6	2
PSP253	Advanced Landscape Construction 1	6	3

Year 3, Semester 2

PSP216	Landscape Planning	12	4
PSP235	Landscape Management B	6	4
PSP254	Advanced Landscape Construction 2	6	3

Year 4, Semester 1

PSP215	Urban Landscape Design	12	3
PSP222	Landscape Practice 1	6	2
PSP234	Landscape Management A	6	4

Year 4, Semester 2

PSP217	Landscape Design	18	5
PSP223	Landscape Practice 2	3	2
PSP260	School Field Trip	3	7-10 days

■ Graduate Diploma in Municipal Engineering (CE63)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Robin Black

Entry Requirements

To be eligible for admission an applicant must hold an acceptable degree or diploma in engineering from a recognised institution.

Applicants who do not meet the requirements for normal entry but who hold a degree or diploma in a scientific or technological field or other equivalent qualifications or hold professional engineering recognition may be required to complete such prerequisite engineering units as may be determined by the Head of the School of Civil Engineering prior to enrolment in the course.

Course Structure

The course has four majors. It consists of 40 credit points (10 semester hours) of core material common to all majors and a minimum of 56 credit points (14 semester hours) of material prescribed for majors. The majority of the units are common with the Master of Engineering Science (Civil) (CE74).

Students may transfer from the Graduate Diploma in Municipal Engineering to the Master of Engineering Science (Civil). For further details on the transfer arrangement refer to the Master of Engineering (Civil) entry in this Handbook.

Students who do not wish to undertake a major must complete the core units plus any combination of units from the majors totalling at least 56 credit points. Programs should be devised in consultation with the Course Coordinator.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in...".

Course Structure – All Majors

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEP128	Municipal Engineering Planning (offered even years) ⁷	12	3
CEP131	Engineering Management & Administration	12	3

⁷ In years that these units are not available, students take units from their chosen major and complete these units in the following year.

Year 1, Semester 2

CEP200	Process Modelling	8	2
CEP361	Drainage Engineering (offered odd years) ⁷	8	2
	Unit chosen from major	8	

Year 2, Semester 1

Units chosen from major	24
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Year 2, Semester 2

Units chosen from major	24
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		Year and Semester of Offer	Credit Points	Contact Hrs/Wk
ENVIRONMENTAL ENGINEERING MAJOR (EVN)				
CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3
CEP290	Environmental Law & Assessment ³	odd, 2	8	2
CHP691	Environmental Chemistry	even, 2	8	2

LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)

CEP107	Construction Management & Economics	odd, 1	8	2
CEP109	Municipal Law & Regulations	even, 2	8	2
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP174	Public Health Engineering Practice	odd, 1	12	3

Plus units totalling at least 16 credit points from any other major.⁸

PUBLIC HEALTH ENGINEERING MAJOR (PHN)

CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3

Plus units totalling at least 16 credit points from any other major.⁸

TRANSPORTATION ENGINEERING MAJOR (TRN)

CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP215	Advanced Traffic Engineering	odd, 2	8	2
CEP218	Transportation Engineering	even, 1	12	3
CEP310	Urban Transportation Planning	even, 2	8	2

Plus units totalling at least 16 credit points from any other major.⁸

■ Graduate Diploma in Project Management (CN64)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

³ CEP290 Environmental Law and Assessment may be offered in even years, semester two, in conjunction with a Bachelor of Engineering elective unit.

⁷ In years that these units are not available, students take units from their chosen major and complete these units in the following year.

⁸ Includes CEP491 Municipal Engineering Practice (16 credit points and 4 contact hours) which is available in any semester.

Course Coordinator: Dr Keith Hampson

Entry Requirements

To be eligible for admission an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination, and
- (iii) have a minimum of three years relevant experience after graduation.
- (iv) Special entry at the discretion of the Course Coordinator may be granted where an equivalent course of study or examination cannot be readily established. This may involve a qualifying examination.

The Graduate Diploma in Project Management has majors in Project Management and Property Development. These areas are also available as majors within the masters degree program.

Note: It is strongly recommended that all graduate diploma students complete the unit IFN001 Advanced Information Retrieval Skills before commencing the course or early in Semester 1. The credit points of this unit will not be included in the total credit points which must be completed for the award of the graduate diploma.

All units shown are compulsory core units. Students may undertake additional elective units or replace core units for which credit has been formally approved with other units available throughout the University. These units should be offered at a postgraduate level, or in some cases, at an advanced undergraduate level. Variations to the recommended study program require prior approval from the Course Coordinator.

PROJECT MANAGEMENT MAJOR

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Semester 1		
CNP426/1 Project Development	6	2
CNP429 Cost Management & Economics	6	2
CNP430/1 Current Issues	6	2
CNP431/1 Project Management	6	2
CNP433/1 Project Management Law	6	2
CNP434 Time Management	6	2
CNP437 Field Trip	6	4 days
Two electives selected from List A	12	

Semester 2

CNP406 International Project Management	6	2
CNP426/2 Project Development	6	2
CNP430/2 Current Issues	6	2
CNP431/2 Project Management	6	2
CNP433/2 Project Management Law	6	2
Two electives selected from List B	12	

Part-Time Course Structure

Year 1, Semester 1

CNP429 Cost Management & Economics	6	2
CNP431/1 Project Management	6	2
CNP434 Time Management	6	2
CNP437 Field Trip	6	4 days
An elective unit selected from List A	6	

Year 1, Semester 2

CNP406 International Project Management	6	2
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CNP431/2	Project Management	6	2
	An elective unit selected from List B	6	2

Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP433/1	Project Management Law	6	2
	An elective unit selected from List A	6	2

Year 2 Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP433/2	Project Management Law	6	2
	An elective unit selected from List B	6	2

LIST A: Semester 1 Elective Units

CNP400	Management of Technology	6	2
CNP402	Principles of Valuation	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP417	Design Management	6	2
CNP439	Property Management	6	2

LIST B: Semester 2 Elective Units

CNP404	Advanced Land Development	6	2
CNP422	Specialist Valuation	6	2
CNP667	Applied Computing	6	2

PROPERTY DEVELOPMENT MAJOR

Full-Time Course Structure

Year 1, Semester 1

CNP402	Principles Of Valuation	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2
	Two electives selected from List C	12	4

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP438	Real Estate Investment Analysis	6	2
	Two electives selected from List D	12	4

Part-Time Course Structure

Year 1, Semester 1

CNP402	Principles Of Valuation	6	2
CNP426/1	Project Development	6	2
CNP431/1	Project Management	6	2
CNP437	Field Trip	6	4 days
	An elective unit selected from List C	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP438	Real Estate Investment Analysis	6	2

Year 2, Semester 1

CNP430/1	Current Issues	6	2
CNP433/1	Project Management Law	6	2
CNP439	Property Management	6	2
	An elective unit selected from List C	6	2

Year 2, Semester 2

CNP430/2	Current Issues	6	2
CNP433/2	Project Management Law	6	2
	Two electives selected from List D	12	4

LIST C: Semester 1 Elective Units

CNP400	Management of Technology	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP417	Design Management	6	2
CNP429	Cost Management & Economics	6	2
CNP434	Time Management	6	2

LIST D: Semester 2 Elective Units

CNP404	Advanced Land Development	6	2
CNP406	International Project Management	6	2
CNP422	Specialist Valuation	6	2
CNP667	Applied Computing	6	2

■ Graduate Diploma in Surveying Practice (PS68)

Location: Gardens Point campus

Course Duration: 1 year full-time (34 weeks)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Brian Hannigan

Professional Recognition

Successful completion of the course leads to the licensing by the Surveyors Board of Queensland.

Entry Requirements

To be eligible for admission an applicant must hold the following:

- (i) a Bachelor of Applied Science (Surveying) degree from the Queensland University of Technology, or
- (ii) a Bachelor of Surveying degree from the University of Queensland, or
- (iii) from another tertiary institution a degree acceptable to the Surveyors Board of Queensland and considered by the Head of the School of Planning, Landscape Architecture and Surveying to be at least equivalent to QUT's Bachelor of Applied Science (Surveying) degree.

Applicants who do not meet the requirements for normal entry but who hold a tertiary qualification in a technological field or other equivalent qualification may be required to complete such prerequisite surveying and other units as may be determined by the Head of School prior to enrolment in the course.

It is desirable though not essential that applicants for admission have at least one year of practical experience in the practice of surveying following graduation.

Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
PSP311	Professional Practice Management	12	9
PSP312	Survey Computing & Processing	8	6
PSP313	Survey Project Management	8	6
PSP314	Boundary Definition Surveys 1	12	9
PSP315	Property Development Surveys	8	6

Semester 2

PSP321	Spatial Information Systems	8	6
PSP322	Engineering Surveying	12	9
PSP323	Project Site Surveys	8	6
PSP324	Boundary Definition Surveys 2	12	9
PSP325	Property Management Surveys	8	6

■ Graduate Diploma in Urban and Regional Planning (PS67)

Location: Gardens Point campus

Course Duration: 2 years full-time, 3.5 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Brian Hudson

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold a degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Applicants who do not meet these requirements for entry but who, because of other qualifications or relevant experience, can demonstrate that they are capable of meeting the requirements of the course, may be considered for special entry. Special entry applicants are normally required to pass an entrance examination and undertake approved courses before being allowed to enter this course.

Notes

Graduates of the QUT Bachelor of Built Environment (Urban and Regional Planning) shall be credited with all the units listed in the full-time program for Year 1 (Semesters 1 and 2). Students from other backgrounds may be granted credit on application as appropriate to their education and experience.

Students who do not have basic graphics skills are required to attend a QUT graphics workshop/summer school before being permitted to enter the Graduate Diploma in Urban and Regional Planning program. Students must demonstrate competency in environmental studies prior to undertaking PSB001 Environmental Impacts.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COP115	Professional Communication	4	2
PSP003	Economics of Town Planning	6	2
PSP077	Transport Planning	6	2
PSP110	Site Planning Practice & Law	12	4
PSP112	Site Planning Methods	4	1
PSP113	Theory of Site Planning	4	1
PSP114	Introduction to Maps & Air Photos	4	1
PSP115	Planning Processes	8	2
Year 1, Semester 2			
ISB183	Introduction to Computers in Planning	4	1
PSP001	Environmental Impacts	6	2
PSP002	History of Planning	4	1
PSP059	Population & Urban Studies	6	2
PSP063	Housing & Community Services	6	2

PSP078	Urban Land Development	6	2
PSP120	Urban Design Practice	12	3
PSP126	Urban Design Methods	4	1

Year 2, Semester 1

PSP130	Planning Practice & Law (Urban)	12	4
PSP133	Rural Land Use & Planning	4	1
PSP134	Theories for Planning	12	3
PSP136	Regional Planning Methods	6	2
PSP137	Resource Management	8	2
PSP138	Computer Applications in Planning	6	2

Year 2, Semester 2

PSP060	School Field Trip	4	7-10 days
PSP140	Planning Practice & Law (Regional & Strategic)	12	4
PSP144	Urban Policy Implementation	4	1
PSP145	Social Planning	4	1
PSP146	Procedural Planning Theory	4	1
PSP147	Professional Procedures & Ethics	4	1
PSP150	Research Methods & Individual Project	16	2

Part-Time Course Structure

Year 1, Semester 1

COP115	Professional Communication	4	2
PSP110	Site Planning Practice & Law	12	4
PSP112	Site Planning Methods	4	1
PSP113	Theory of Site Planning	4	1
PSP115	Planning Processes	8	2

Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	1
PSP002	History of Planning	4	1
PSP059	Population & Urban Studies	6	2
PSP120	Urban Design Practice	12	3
PSP126	Urban Design Methods	4	1

Year 2, Semester 1

PSP003	Economics of Town Planning	6	2
PSP114	Introduction to Maps & Air Photos	4	1
PSP134	Theories for Planning	12	3
PSP138	Computer Applications in Planning	6	2

Year 2, Semester 2

PSP001	Environmental Impacts	6	2
PSP060	School Field Trip	4	7-10 days
PSP063	Housing & Community Services	6	2
PSP078	Urban Land Development	6	2
PSP145	Social Planning	4	1
PSP146	Procedural Planning Theory	4	1

Year 3, Semester 1

PSP077	Transport Planning	6	2
PSP130	Planning Practice & Law (Urban)	12	4
PSP133	Rural Land Use & Planning	4	1
PSP136	Regional Planning Methods	6	2

Year 3, Semester 2

PSP140	Planning Practice & Law (Regional & Strategic)	12	4
PSP144	Urban Policy Implementation	4	1
PSP147	Professional Procedures & Ethics	4	1
PSP150	Research Methods & Individual Project ⁹		

⁹ Students attend classes but do not enrol in this semester. Individual Project is prepared and submitted in the next semester.

Year 4, Semester 1

PSP137	Resource Management	8	2
PSP150	Research Methods & Individual Project	16	2

■ Graduate Diploma in Urban Design (PS69)

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Danny O'Hare

Entry Requirements

To be eligible for admission an applicant must hold a bachelor degree with a grade point average of 5.0 or better and demonstrated potential in a relevant professional activity, or a relevant graduate diploma with a grade point average of 5.0 or better, or a qualifying program with a grade point average of 5.0 or better.

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the masters level.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Semester 1		
IFN001 Advanced Information Retrieval Skills	4	1
PSN004 Applied Research Techniques	4	1
PSP401 Urban Design Analysis Studio	12	3
PSP403 Urban Design Conjecture Studio	12	3
PSP405 Urban Design Field Studies	4	10 days
PSP421 History of Urban Systems	4	1
PSP424 Urban Design Theory & Criticism	4	1
Plus any of the following totalling at least 4 credit points:		
CNP439 Property Management	6	2
PSP011 Conservation Theory	3	1
PSP411 Environmental Psychology	4	2
PSP416 Computer Aided Data Analysis	2	1
PSP442 Law & Legislation in Urban Design	4	1
Semester 2		
PSP402 Urban Design Context Studio	12	3
Plus any of the following totalling at least 36 credit points:		
PSN002 Concentration Studies A	4	1
PSN003 Concentration Studies B	8	2
PSP011 Conservation Theory	3	1
PSP432 Urban Landscape	4	1
PSP434 Urban Services & Functions	4	1
PSP441 Computer Applications in Urban Design	4	1
Elective Unit/s		

Part-Time Course Structure

Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1

Year 1, Semester 2

PSN004	Applied Research Techniques	4	1
PSP402	Urban Design Context Studio	12	3
PSP405	Urban Design Field Studies	4	10 days

Plus any of the following totalling at least 4 credit points:

PSP011	Conservation Theory	3	1
PSP416	Computer Aided Data Analysis	2	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1

Year 2, Semester 1

PSP403	Urban Design Conjecture Studio	12	3
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Plus any of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4	2
PSP416	Computer Aided Data Analysis	2	1
PSP442	Law & Legislation in Urban Design	4	1

Year 2, Semester 2

Any of the following totalling at least 24 credit points:

PSN002	Concentration Studies A	4	1
PSN003	Concentration Studies B	8	2
PSP011	Conservation Theory	3	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1
Elective Unit/s			

■ Graduate Certificate in Architectural Practice (AR80)

Location: Gardens Point campus

Course Duration: 1 year part-time

Total Credit Points: 48

Standard Credit Points/Part-Time Semester: 24

Tuition Fees (Domestic Students): \$50 per credit point

Course Coordinator: Mr Jim Stewart

Entry Requirements

An applicant must:

- hold a professional degree or professional diploma in architecture from a recognised University, or approved equivalent tertiary institution, or
- have gained professional recognition in architecture or an allied profession by an equivalent course of study or examination.

Where an equivalent course of study or examination cannot be readily established an applicant, at the discretion of the Head of School, may be recommended for special entry.

This type of entry may depend collectively on such factors as the applicant's qualifications, background, experience and current employment.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
ARP151	Architectural Practice	12	2
ARP153	Legal Studies in Architecture	12	2
Semester 2			
ARP152	Architectural Administration	12	2
ARP154	Architectural Cost Planning	12	2

Note: Each unit has a one-day workshop of six hours duration. Smaller modules of the course may be taken as non-award Continuing Education. Contact the Office of Continuing Education for further information.

■ Graduate Certificate in Electricity Supply Engineering (EE82)

Location: Gardens Point campus

Course Duration: 1 semester full-time, 1 year part-time

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$142 per credit point

Course Coordinator: Mr David Birtwhistle

Entry Requirements

A Bachelor degree in Electrical Engineering with a study of power subjects to third year level.

Full-Time Course Structure			Credit Points	
Semester 1				
12 Units (from List 1)			48	
Part-Time Course Structure				
Semester 1				
6 Units (from List 1)			24	
Semester 2				
6 Units (from List 1)			24	
List 1: Units		Weeks	Credit Points	Contact Hrs/Wk
Semester 1				
EEP201	Fundamentals of Power System Earthing	1-5	4	3
EEP202	Thermal Ratings & Heat Transfer	1-5	4	3
EEP204	Power System Load Flow Analysis	1-5	4	3
EEP213	Statistics	1-5	4	3
EEP203	Testing & Condition Monitoring	6-10	4	3
EEP205	Power System Fault Calculations	6-10	4	3
EEP208	Economic Analysis for Power Systems Engineers	6-10	4	3
EEP210	Abnormal Systems Voltages	6-10	4	3

EEP206	Project Management	11-15	4	3
EEP209	Power System Harmonics	11-15	4	3
EEP218	Introduction to Automated System Control & Supervisory Systems	11-15	4	3
EEP219	High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3

Semester 2

EEP207	Overhead Transmission Line Route Selection	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3
EEP215	Reliability	1-5	4	3
EEP221	Limits to Power System Stability	1-5	4	3
EEP214	Risk Assessment in the Electricity Supply Industry	6-10	4	3
EEP212	Advanced Power System Protection	6-10	4	3
EEP216	Transmission Line Design-Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP217	Transmission Line Design-Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3

Units being offered for Distance Education (anticipated availability early 1995)⁵

Credit Points

EEP201	Fundamentals of Power System Earthing	4
EEP202	Thermal Ratings and Heat Transfer	4
EEP204	Power System Load Flow Analysis	4
EEP205	Power System Fault Calculation	4
EEP206	Project Management	4
EEP207	Overhead Transmission Line Route Selection	4
EEP208	Economic Analysis for Power System Engineers	4
EEP209	Power System Harmonics	4
EEP210	Abnormal System Voltages	4
EEP213	Statistics	4
EEP214	Risk Assessment in the Electricity Supply Industry	4
EEP215	Reliability	4
EEP218	Introduction to Automated System Control & Supervisory Systems	4

■ Graduate Certificate in Engineering Management (ME75)

Course Duration: 1 semester full-time, 1 year part-time

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$50 per credit point

Course Coordinator: Mr George O'Sachy

Entry Requirements

- a Bachelor's degree in Engineering (or its equivalent), or
- relevant training or experience considered by the Course Coordinator as appropriate for entry to the course.

Note: Course offered subject to final University approval

⁵ Subject to University approval.

Course Requirements

Students will take four of the following units. All units are offered in the Master of Engineering Science (Engineering Management) (ME76) or the Graduate Diploma in Quality (IF69). The course may be taken full-time, part-time, part-time (block release) or by a combination of these modes.

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Select four units from the following:			
MEN140	Reliability and Maintenance Optimisation	12	3
MEN170	Systems Modelling and Simulation	12	3
MEN171	Advanced Manufacturing Technologies	12	3
MEN240	Maintenance Management and Technology	12	3
MEN270	Manufacturing Resource Planning	12	3
MEN280	Engineering Project Management	12	3
MEP274	Quality Systems Implementation and Maintenance	12	3

■ Graduate Certificate in Project Development (CN81)

With specialisations in: Construction Management, Project Management, Property Development, and Property Economics

Location: Gardens Point campus

Course Duration: 1 year part-time

Total Credit Points: 48

Standard Credit Points/Part-Time Semester: 24

Tuition Fees (Domestic Students): \$70 per credit point

Course Coordinator: Dr Keith Hampson

Entry Requirements

NORMAL ENTRY

An applicant must:

- hold a relevant degree or diploma from a recognised University, College of Advanced Education or approved tertiary institution, or
- hold degree-equivalent professional qualifications, and
- normally have at least three years relevant experience after graduation.

SPECIAL ENTRY

An applicant must:

- have extensive, relevant, professional experience as determined by the Course Coordinator
- for the specialisations in Project Management and Property Development, have a minimum of three years relevant experience after graduation.

Course Structure

No exemptions are permitted. If a unit has been studied previously then an alternative should be selected.

If students have opted for the specialisations in Project Management or Property Development, after the successful completion of one graduate certificate, they may, on achieving a grade point average of 5.0 or better and gaining admission to the Graduate Diploma in Project Management, complete a further 48 credit points in the same discipline

with the guidance and approval of the Course Coordinator and be granted the graduate diploma in that discipline.

It should be noted that some units are available in concentrated format over a period of one, two or three days rather than in the standard format of two hours per week for one or two semesters. These will be run only if there is sufficient demand and will be self funding from fees charged.

It is strongly recommended that all graduate certificate students complete the unit IFN001 Advanced Information Retrieval Skills prior to commencing the course or early in Semester 1. The credit point value of this unit is not included in the total credit points which must be completed to be awarded a graduate certificate.

CONSTRUCTION MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

		Credit Points	Contact Hrs/Wk
Semester 1			
CNB601	Formwork Design & Construction	4	2
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
Semester 2			
CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

Electives available in the Graduate Diploma in Project Management (CN64) in advanced units in CN31 may also be undertaken with the prior approval of the Course Coordinator.

PROJECT MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1			
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP430/1	Current Issues	6	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
Semester 2			
CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Project Management major – may also be undertaken with the prior approval of the Course Coordinator.

PROPERTY DEVELOPMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1

CNP402	Principles of Valuation	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2

Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP432	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Property Development major – may also be undertaken with the prior approval of the Course Coordinator.

PROPERTY ECONOMICS SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1

CNB568	Real Estate Practice	5	2.5
CNP402	Principles of Valuation	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP439	Property Management	6	2

Semester 2

CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP422	Specialist Valuation	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP438	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Property Development major – may also be undertaken with the prior approval of the Course Coordinator.

Note: A Graduate Certificate in Project Development with no specialisation can also be taken by enrolling in 48 credit points from the following list:

Semester 1

CNB601	Formwork Design & Construction	4	2
CNP402	Principles of Valuation	6	2
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2

Semester 2

CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	3
CNP431	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP438	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) or other units in the University may also be undertaken with the prior approval of the Course Coordinator, in order that the specific needs of individual students are met.

□ Course Requirements and Notes Relating to Undergraduate Courses

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester that they are offered. In order to maintain orderly progression through a course, a prerequisite requirement **may** be waived, if a student has attempted but not passed the prerequisite and the approval of the Course Coordinator has been obtained. This is considered to be a major concession. Students who have failed units, or have doubts about having the necessary background to proceed, should seek the advice of the Course Coordinator.

Supplementary Assessment

It is not normally faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

Use of Calculators in Examinations

Restrictions apply on the use of calculators in examinations. Students should consult the first year information booklets for details of the policies of individual schools.

Field Trips

Attendance at field trips or field projects in engineering courses is compulsory.

School of Civil Engineering Safety Shoes Policy

Students enrolled in units specified by the School of Civil Engineering will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering if required.

Industrial Experience for Engineering and Surveying Courses

Industrial experience/practice forms part of the requirements of engineering and surveying

degree courses, in order to provide a realistic background for formal academic studies and to ensure that students become effectively balanced in their professional development. For engineering students, it is a requirement of the Institution of Engineers, Australia, for graduate membership. Industrial experience/practice is undertaken during the long vacation or the mid-semester recess as an employee of a private firm, government agency or local authority.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Faculty Office), a report in the required format describing the work carried out during the period of industrial experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Experience Officer in Room 1006, ITE Building, Gardens Point campus and also from the Faculty Office.

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial experience/practice in an engineering environment approved by the Course Coordinator.

A candidate for the degree of Bachelor of Applied Science (Surveying) must obtain at least 90 days of industrial experience/practice in a surveying environment approved by the Course Coordinator.

Candidates in the Bachelor of Engineering (Aerospace Avionics) degree are required to obtain 10 days specialist experience in the avionics industry during the first year of their course as part of the industrial experience/practice requirement.

A candidate for an Associate Diploma of Engineering should refer to the relevant course structure for specific industrial experience/practice requirements for these courses.

ENROLMENT IN INDUSTRIAL EMPLOYMENT/PRACTICE

Students in the Bachelor of Applied Science (Surveying) and Bachelor of Engineering courses should not formally enrol in industrial experience/practice.

However, students in Associate Diploma of Engineering courses must enrol in industrial experience units as these units carry credit points. For these students, the enrolment must be in the semester in which students expect to submit an Industrial Experience Record Form which will fulfil the minimum requirement of five weeks for the unit.

Industrial Experience for the Bachelor of Architecture Course (AR48)

A candidate for the Bachelor of Architecture degree must be engaged in approved employment for at least 48 recognised weeks within the first 3 years (Approved Employment A), and for at least 72 recognised weeks within the second 3 years (Approved Employment B).

□ Approved Employment

'Approved employment' is defined as working under the direction of an architect who is registered within the place of practice where the experience is obtained.

□ Eight Weeks at a Time

Periods of work experience of less than 8 recognised weeks continuous duration cannot be accredited.

□ Recognised Week

A 'recognised week' is a week of 5 days work. During semester, when students normally work for 4 days per week, the 18 week semester (14 weeks in class and 4 weeks in examination), translates to 14.4 'recognised weeks'. This figure is rounded off to 14 weeks to take into account of public holidays. Students in continuous

concurrent employment would normally accumulate 40 recognised weeks in a calendar year. (A 3 day working week constitutes 3/5 of a recognised week. A 6 day working week constitutes 6/5 of a recognised week.

All reference to a 'week' hereinafter shall mean a 'recognised week'.

❑ **Years 1 and 2 Commencement**

Candidates who are admitted into the course at the beginning of Years 1 and 2 must satisfy all of Approved Employment A & B requirements.

❑ **Year 3 Commencement**

Candidates who are admitted into the course at the beginning of Year 3 must complete 24 weeks in Approved Employment A and all Approved Employment B requirements.

❑ **After Year 3 Commencement**

Candidates who are admitted directly into the course after the end of the third year must satisfy Approved Employment B only.

❑ **Pre-requisite**

Approved Employment A is normally a pre-requisite for Approved Employment B.

❑ **Allied experience during the course**

Candidates may accumulate up to 12 weeks maximum in Approved Employment A and up to 18 weeks maximum in Approved Employment B for experience gained prior or during the course in approved allied areas to architecture. (Commonly approved allied areas: Civil Engineering, Interior Design, Industrial Design, Quantity Surveying, Construction Management, Town Planning, Landscape Architecture, Building.)

❑ **Experience Prior to Commencement**

Candidates may accumulate a maximum of 24 weeks in Approved Employment A and a maximum of 36 weeks in Approved Employment B for satisfactory approved experience under the direction of an architect prior to enrolment in the course and these maximum periods can include:

- satisfactory approved experience gained prior to enrolment in the course in approved allied areas of architecture (provided the total period claimed for experience in approved allied areas does not exceed the maximum periods set for that experience in Approved Employment A & B).

❑ **Experience During Leave of Absence**

Candidates may accumulate up to 24 weeks in Approved Employment A and 36 week in Approved Employment B during periods of approved leave of absence from formal classes. This may be in a period during the course or after completion of the academic course requirements.

❑ **Report Each Semester**

Semester update reports on progress are required at the end of each semester and examination results may not be issued until they are submitted.

❑ **Report Form Employment A**

QUT School of Architecture, Interior & Industrial Design Approved Employment report forms must be completed and lodged for Approved Employment A.

❑ **Report Log for Employment B**

The AACA log book of practical experience and university report forms must be completed and lodged to QUT for Approved Employment B.

- ❑ **Satisfactory Employment for Course Progression and Graduation**
For administrative purposes, candidates must enrol in Approved Employment A in the second semester of third year and then cannot proceed to fourth year until this unit of employment is satisfied, unless a special dispensation is granted. Candidates must enrol in Approved Employment B in the second semester of sixth year and will not be eligible to graduate until this unit of employment is satisfied. In both cases the accumulated credit, as recorded through the semester reports, will form the basis for accrediting work experience.
- ❑ **Credited Employment Counts Once**
Employment which has been approved or credited in Employment A cannot be considered for further approval or credit in Employment B.
- ❑ **Full-time Students in Final 2 Years**
Candidates proposing to study the final 192 credit points in the course in two years full-time.
 - (a) Candidates (including those who had previously been studying full time) must have achieved a minimum of 36 weeks accredited to Approved Employment B, before commencing Year 4.
 - (b) Candidates who had previously been studying part-time, and who have satisfied Approved Employment A, may apply in Approved Employment B for credit a maximum of 36 weeks of work experience accrued in the first three years which is in addition to that credited to Approved Employment A.
- ❑ **Types of Experience**
Type of experience required:
 - (a) Approved Employment A – at least 50% of time in undertaking design and/or documentation.
 - (b) Approved Employment B –
 - (i) 50% of time in design stages and contract documentation (AACA item 4.3 and 4.5)
 - (ii) Preliminary site investigation and evaluation of at least one project (AACA item 4.2.4)
 - (iii) Project Management /Contract Administration of at least one project at “observer” status where direct experience is unavailable (AACA items 4.7.19, 4.7.20, 4.7.21 and 4.7.22)

■ **Bachelor of Applied Science (Construction Management) (CN41)¹⁰**

Location: Gardens Point campus

Course Duration: 3 years full-time plus 1 year part-time, or 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Gary Thomas

Special Course Requirement

Students are required to pass the examination segment of each unit to pass that unit.

¹⁰ See course requirements and notes relating to undergraduate courses.

A student registered in the part-time study program must be employed full-time by an approved building organisation or other approved body, ideally during the whole of their study, but as a minimum for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final year part-time segment of the course.

Part-time study generally involves 11-13 hours per week and comprises a full day release from employment with the remaining time spread over two nights between 5.00pm and 9.30pm.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

All students must become familiar with and comply with the School's enrolment rules.

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNB111	Construction 1	8	4
CNB113	Building Technology 1	8	4
CNB115	Graphics	6	2
CNB117	Professional Studies A	6	3
COB165	Professional Writing/Learning at University	8	2.5
ISB170	Introduction to Computing	6	2
MAB299	Mathematics for Technologists	6	3
Year 1, Semester 2			
CNB112	Construction 2	12	5
CNB114	Building Technology 2	8	4
CNB116	Measurement 1	6	3
CNB118	Building Services 1	6	2
CNB124	Professional Studies 1	8	3
PSB910	Construction Surveying	8	4
Year 2, Semester 1			
CNB211	Construction 3	12	4
CNB213	Building Technology 3	6	4
CNB215	Measurement 2	6	3
CNB217	Building Services 2	6	3
CNB219	Economics of the Construction Industry	6	2
CNB221	Building Legislation	6	4
CNB223	Applied Computing 1	6	2
Year 2, Semester 2			
CNB212	Construction 4	9	5
CNB214	Building Contracts/Arbitration Law	6	3
CNB216	Measurement 3	6	3
CNB218	Building Services 3	6	3
CNB220	Construction Management 1	6	2
CNB222	Estimating 1	6	2
CNB224	Professional Studies 2	9	3
Year 3, Semester 1			
CNB311	Construction 5	9	5
CNB313	Time Management 1	9	4
CNB315	Construction Business Management	6	3
CNB317	Construction Management 2	6	3
CNB321	Torts & Property Law	6	2
CNB323	Estimating 2	6	2
CNB325	Building Economics	6	2
Year 3, Semester 2			
CNB316	Valuations & Investment Theory	6	3
CNB318	Commercial Law	6	2

CNB322	Construction Management Case Study	6	3
CNB326	Time Management 2	8	4
CNB328	Construction Management 3	8	3
CNB330	Applied Computing 2	6	3
CNB334	Professional Studies 3	8	3

Year 4, Semester 1

CNB003	Professional Practice 1A	9	3
CNB411	Development Process 1	9	3
CNB417	Research Project 1	12	4
CNB419	Applied Computing 3	9	3
CNB431	Elective 1	9	3

Year 4, Semester 2

CNB004	Professional Practice 2A	9	3
CNB412	Development Process 2	6	2
CNB416	Construction Management 4	12	4
CNB418	Research Project 2	12	4
CNB432	Elective 2	9	3

Part-Time Course Structure

Year 1, Semester 1

CNB111	Construction 1	8	4
CNB113	Building Technology 1	8	4
CNB115	Graphics	6	2
COB165	Professional Writing/Learning at University	8	2.5

Year 1, Semester 2

CNB112	Construction 2	12	5
CNB114	Building Technology 2	8	4
MAB299	Mathematics for Technologists	6	3

Year 2, Semester 1

CNB211	Construction 3	12	4
CNB213	Building Technology 3	6	4
CNB221	Building Legislation	6	4

Year 2, Semester 2

CNB116	Measurement 1	6	3
CNB118	Building Services 1	6	2
CNB212	Construction 4	9	5
ISB170	Introduction to Computing	6	2

Year 3, Semester 1

CNB117	Professional Studies A	6	3
CNB215	Measurement 2	6	3
CNB223	Applied Computing 1	6	2
CNB311	Construction 5	9	5

Year 3, Semester 2

CNB216	Measurement 3	6	3
CNB218	Building Services 3	6	3
CNB222	Estimating 1	6	2
PSB910	Construction Surveying	8	4

Year 4, Semester 1

CNB217	Building Services 2	6	3
CNB219	Economics of the Construction Industry	6	2
CNB321	Torts & Property Law	6	2
CNB323	Estimating 2	6	2

Year 4, Semester 2

CNB214	Building Contracts/Arbitration Law	6	3
CNB220	Construction Management 1	6	2
CNB316	Valuations & Investment Theory	6	3
CNB322	Construction Management Case Study	6	3

Year 5, Semester 1

CNB313	Time Management 1	9	4
CNB315	Construction Business Management	6	3
CNB317	Construction Management 2	6	3
CNB325	Building Economics	6	2

Year 5, Semester 2

CNB318	Commercial Law	6	2
CNB326	Time Management 2	8	4
CNB328	Construction Management 3	8	3
CNB330	Applied Computing 2	6	3

Year 6, Semester 1

CNB411	Development Process 1	9	3
CNB417	Research Project 1	12	4
CNB419	Applied Computing 3	9	3
CNB431	Elective 1	9	3

Year 6, Semester 2

CNB412	Development Process 2	6	2
CNB416	Construction Management 4	12	4
CNB418	Research Project 2	12	4
CNB432	Elective 2	9	3

Work Experience

A student registered in the part-time study program must be in approved full time employment for three of the final four years of the course.

Part-time students should endeavour to complete their Professional Practice units in years 4 & 5 when they are to enrol and satisfy the requirements of the following units:

CNB021	Professional Practice 1	12
CNB022	Professional Practice 2	12
CNB023	Professional Practice 3	9
CNB024	Professional Practice 4	9

■ Bachelor of Applied Science (Construction Management) (CN31)¹⁰

Course discontinued: No further intakes. This course has been replaced by the Bachelor of Applied Science (Construction Management)(CN41). Years 2 to 4 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 2 years full-time plus 2 years part-time, 6 years part-time

Total Credit Points: 287

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Gary Thomas

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed full-time by an approved building organisation or other approved body for three of the final four years of the course.

¹⁰ See course requirements and notes relating to undergraduate courses.

A student registered in the full-time study program must be similarly employed during the final two years part-time segment of the course.

Part-time study generally involves 11 to 12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

For the first four years of the part-time course, a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
CNB013	Building Services 1 – HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 – Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	4	2
CNB443	Building Services 3	5	2.5
CNB601	Formwork Design & Construction	4	2
Year 2, Semester 2			
CNB014	Building Services 2 – Electrical	4	2
CNB243	Law 1 – Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB404	Building Management 2	4	2
CNB405	Project Equipment & Safety	4	2
CNB440/2	Law 3 – Building Contracts	3	1
CNB442/2	Valuation & Dilapidations	2	1
CNB446	Estimating 1	5	2.5
Year 3, Semester 1			
CNB341	Building & Civil Engineering Construction	4	2
CNB501	Building Management 3	4	2
CNB527	PM2 – Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 – Construction Planning Techniques 1	7	3.5
Select one unit from the following:			
CNB444	Mechanical & Electrical Estimating	4	2
	Elective Unit	4	
Year 3, Semester 2			
CNB301	PM1 – Advanced Construction Methods	4	2
CNB502	Building Management 4	4	2
CNB543	Law 4 – Torts & Arbitrations	3	1.5
CNB548	PM4 – Construction Planning Techniques 2	8	4
CNB550	PM5 – Project Cost Control	6	3
Year 4, Semester 1			
CNB603	Building Management 5	4	2
CNB623	PM6 – Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4
Select one unit from the following:			
CEB701	Civil Engineering Quantities 1	4	2
	Elective Unit	4	

Year 4, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB606	PM8 – Land Development Studies	4	2
CNB624	PM7 – Building Development Techniques 2	4	2
CNB656/2	Building Research	10	5

Select one unit from the following:

CNB643	Law 5 – Commercial Law	3	1.5
	Elective Unit	3	

Part-Time Course Structure**Year 2, Semester 1**

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	4	2

Year 2, Semester 2

CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 – Building Acts & Regulations	5	2
CNB254	Construction 4	12	6

Year 3, Semester 1

CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 – HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 – Principles & Property	3	1.5
PSB904	Surveying & Measuring	4	2
SSB908	Behavioural Science	6	3

Year 3, Semester 2

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 – Electrical	4	2
CNB347	Hygiene & Sanitation	4	2
CNB405	Project Equipment & Safety	4	2
PSB905	Project Survey	4	2

Year 4, Semester 1

CNB403	Building Management 1	4	2
CNB440/1	Law 3 – Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	4	2
CNB443	Building Services 3	5	2.5
CNB601	Formwork Design & Construction	4	2

Select one unit from the following:

CNB444	Mechanical & Electrical Estimating	4	2
	Elective Unit	4	

Year 4, Semester 2

CNB301	PM1 – Advanced Construction Methods	4	2
CNB404	Building Management 2	4	2
CNB440/2	Law 3 – Building Contracts	3	1
CNB442/2	Valuation & Dilapidations	2	1
CNB446	Estimating 1	5	2.5

Select one unit from the following:

CNB343	Economics of the Construction Industry	4	2
	Elective Unit	4	

Year 5, Semester 1

CNB501	Building Management 3	4	2
CNB527	PM2 – Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 – Construction Planning Techniques 1	7	3.5

Select one unit from the following:

CEB701	Civil Engineering Quantities 1	4	2
	Elective Unit	4	

Year 5, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB502	Building Management 4	4	2
CNB543	Law 4 – Torts & Arbitrations	3	1.5
CNB548	PM4 – Construction Planning Techniques 2	8	4
CNB550	PM5 – Project Cost Control	6	3

Year 6, Semester 1

CNB603	Building Management 5	4	2
CNB623	PM6 – Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4

Year 6, Semester 2

CNB606	PM8 – Land Development Studies	4	2
CNB624	PM7 – Building Development Techniques 2	4	2
CNB656/2	Building Research	10	5

Select one unit from the following:

CNB643	Law 5 – Commercial Law	3	1.5
	Elective Unit	3	

Elective Units

Elective units may be taken from any other course offered by the University in consultation with the Course Coordinator.

■ Bachelor of Applied Science (Property Economics) (CN32)¹⁰

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr George Earl

Professional Recognition

Completion of the undergraduate course together with the related experience requirements make a graduate eligible for membership of the Australian Institute of Valuers and Land Economists, registration by the Valuers Registration Board of Queensland, and licensing as a real estate agent.

Special Course Requirements

Full-time students must undertake six weeks professional work experience during the duration of the course. All work experience is to be approved by the Course Coordinator to verify that it is appropriate.

A student registered in the part-time study program must be employed full-time in an approved organisation for three of the final four years of the course.

Part-time study generally involves 11 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

¹⁰ See course requirements and notes relating to undergraduate courses.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

BNB001	Learning at University	2	1.5
CNB161	Building Studies 1	14	5.5
CNB263	Valuation 1	7	3
CNB342	Law 2 – Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
MAB298	Mathematics & Statistics	4	2
PSB060	Introduction to Economics	2	1
PSB902	Urban Planning 1	4	2
SSB908	Behavioural Science	6	3

Year 1, Semester 2

CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB565	Land Management	8	3
CNB643	Law 5 – Commercial Law	3	1.5
ISB180	Computer Applications	4	2
PSB903	Urban Planning 2	4	2

Year 2, Semester 1

CNB261	Building Studies 3	9	3
CNB363	Valuation 3	9	3
CNB367	Real Estate Accounting 1	9	3
CNB471	Property Practice Law	8	2.5
CNB665	Property Management 1	9	3
PSB904	Surveying & Measuring	4	2

Year 2, Semester 2

CNB262	Building Studies 4	8	3
CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB567	Real Estate Market Analysis	4	2
CNB626	Land Development Studies	4	2
CNB666	Property Management 2	8	3
CNB667	Applied Computer Techniques	8	3

Year 3, Semester 1

CNB464	Valuation 5 – Rural	8	3
CNB465	Property Investment Analysis 1	8	3
CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Property Development 1	5	2

Year 3, Semester 2

CNB466	Property Investment Analysis 2	8	3
CNB470	Valuation 6 – Rural	8	3
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB662	Research Dissertation 2	8	4
CNB664	Property Development 2	6	2

Part-Time Course Structure**Year 1, Semester 1**

BNB001	Learning at University	2	1.5
CNB161	Building Studies 1	14	5.5
MAB298	Mathematics & Statistics	4	2
PSB060	Introduction to Economics	2	1

**BUILT
ENVIRONMENT
& ENGINEERING**

Year 1, Semester 2

CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB565	Land Management	8	3
ISB180	Computer Applications	4	2

Year 2, Semester 1

CNB261	Building Studies 3	9	3
CNB263	Valuation 1	7	3
CNB342	Law 2 – Principles & Property	3	1.5
COB163	Professional Writing	6	1.5

Year 2, Semester 2

CNB262	Building Studies 4	8	3
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB626	Land Development Studies	4	2

Year 3, Semester 1

CNB363	Valuation 3	9	3
CNB367	Real Estate Accounting 1	9	3
PSB902	Urban Planning 1	4	2

Year 3, Semester 2

CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB643	Law 5 – Commercial Law	3	1.5
PSB903	Urban Planning 2	4	2

Year 4, Semester 1

CNB464	Valuation 5 – Rural	8	3
CNB465	Property Investment Analysis 1	8	3
SSB908	Behavioural Science	6	3
PSB904	Surveying & Measuring	4	2

Year 4, Semester 2

CNB466	Property Investment Analysis 2	8	3
CNB470	Valuation 6 – Rural	8	3
CNB472	Property Taxation Issues	8	2

Year 5, Semester 1

CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5

Year 5, Semester 2

CNB564	Valuation 7	8	3
CNB567	Real Estate Market Analysis	4	2
CNB667	Applied Computer Techniques	8	3

Year 6, Semester 1

CNB471	Property Practice Law	8	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Property Development 1	5	2
CNB665	Property Management 1	9	3

Year 6, Semester 2

CNB662	Research Dissertation 2	8	4
CNB664	Property Development 2	6	2
CNB666	Property Management 2	8	3

■ Bachelor of Applied Science (Quantity Surveying) (CN43)¹⁰

Location: Gardens Point campus

Course Duration: 3 years full-time plus 1 year part-time, or 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Don Campbell-Stewart

Special Course Requirement

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed in a building or quantity surveying office under the direction of a qualified quantity surveyor, ideally during the whole of their study, but as a minimum for three of the final four years of the course.

A student registered for the full-time study program must be similarly employed during the final year part-time segment of the course.

Part-time study generally involves 11-13 hours per week and comprises a full day release from employment with the remaining time spread over two nights between 5.00pm and 9.30pm.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

All students must become familiar with and comply with the School's enrolment rules.

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNB111	Construction 1	8	4
CNB113	Building Technology 1	8	4
CNB115	Graphics	6	2
CNB117	Professional Studies A	6	3
COB165	Professional Writing/Learning at University	8	2.5
ISB170	Introduction to Computing	6	2
MAB299	Mathematics for Technologists	6	3
Year 1, Semester 2			
CNB112	Construction 2	12	5
CNB114	Building Technology 2	8	4
CNB116	Measurement 1	6	3
CNB118	Building Services 1	6	2
CNB124	Professional Studies 1	8	3
PSB910	Construction Surveying	8	4
Year 2, Semester 1			
CNB211	Construction 3	12	4
CNB213	Building Technology 3	6	4
CNB215	Measurement 2	6	3
CNB217	Building Services 2	6	3
CNB219	Economics of the Construction Industry	6	2
CNB221	Building Legislation	6	4
CNB223	Applied Computing 1	6	2
Year 2, Semester 2			
CNB212	Construction 4	9	5
CNB214	Building Contracts/Arbitration Law	6	3

¹⁰ See course requirements and notes relating to undergraduate courses.

CNB216	Measurement 3		
		6	3
CNB218	Building Services 3	6	3
CNB220	Construction Management 1	6	2
CNB222	Estimating 1	6	2
CNB224	Professional Studies 2	9	3
Year 3, Semester 1			
CNB311	Construction 5	9	5
CNB313	Time Management 1	9	4
CNB315	Construction Business Management	6	3
CNB319	Professional Management	6	3
CNB321	Torts & Property Law	6	2
CNB323	Estimating 2	6	2
CNB327	Building Economics 1	6	2
Year 3, Semester 2			
CNB312	Measurement 4	9	4
CNB314	Contract Administration 1	6	3
CNB316	Valuations & Investment Theory	6	3
CNB318	Commercial Law	6	2
CNB320	Building Economics 2	6	3
CNB324	Professional Studies 3A	9	3
CNB332	Applied Computing 2A	6	3
Year 4, Semester 1			
CNB001	Professional Practice 1A	9	3
CNB411	Development Process 1	9	3
CNB415	Contract Administration 2	9	3
CNB417	Research Project 1	12	4
CNB421	Elective 1	9	3
Year 4, Semester 2			
CNB002	Professional Practice 2A	9	3
CNB412	Development Process 2	6	2
CNB414	Civil Engineering Quantities	12	4
CNB418	Research Project 2	12	4
CNB422	Elective 2	9	3
Part-Time Course Structure			
Year 1, Semester 1			
CNB111	Construction 1	8	4
CNB113	Building Technology 1	8	4
CNB115	Graphics	6	2
COB165	Professional Writing/Learning at University	8	2.5
Year 1, Semester 2			
CNB112	Construction 2	12	5
CNB114	Building Technology 2	8	4
MAB299	Mathematics for Technologists	6	3
Year 2, Semester 1			
CNB211	Construction 3	12	4
CNB213	Building Technology 3	6	4
CNB221	Building Legislation	6	4
Year 2, Semester 2			
CNB116	Measurement 1	6	3
CNB118	Building Services 1	6	2
CNB212	Construction 4	9	5
ISB170	Introduction to Computing	6	2
Year 3, Semester 1			
CNB117	Professional Studies A	6	3
CNB215	Measurement 2	6	3
CNB223	Applied Computing 1	6	2
CNB311	Construction 5	9	5

Year 3, Semester 2

CNB216	Measurement 3	6	3
CNB218	Building Services 3	6	3
CNB222	Estimating 1	6	2
PSB910	Construction Surveying	8	4

Year 4, Semester 1

CNB217	Building Services 2	6	3
CNB219	Economics of the Construction Industry	6	2
CNB319	Professional Management	6	3
CNB321	Torts & Property Law	6	2
CNB323	Estimating 2	6	2

Year 4, Semester 2

CNB214	Building Contracts/Arbitration Law	6	3
CNB220	Construction Management 1	6	2
CNB312	Measurement 4	9	4
CNB316	Valuations & Investment Theory	6	3

Year 5, Semester 1

CNB313	Time Management 1	9	4
CNB315	Construction Business Management	6	3
CNB327	Building Economics 1	6	2
CNB421	Elective 1	9	3

Year 5, Semester 2

CNB314	Contract Administration 1	6	3
CNB318	Commercial Law	6	2
CNB320	Building Economics 2	6	3
CNB332	Applied Computing 2A	6	3

Year 6, Semester 1

CNB411	Development Process 1	9	3
CNB415	Contract Administration 2	9	3
CNB417	Research Project 1	12	4

Year 6, Semester 2

CNB412	Development Process 2	6	2
CNB414	Civil Engineering Quantities	12	4
CNB418	Research Project 2	12	4
CNB422	Elective 2	9	3

Work Experience

A student registered in the part-time study program must be in approved full time employment for three of the final four years of the course.

In the semesters that part-time students undertake their professional experience they are to enrol and satisfy the requirements of the following units:

CNB031	Professional Practice 1	12
CNB032	Professional Practice 2	12
CNB033	Professional Practice 3	9
CNB034	Professional Practice 4	9

■ Bachelor of Applied Science (Quantity Surveying) (CN33)¹⁰

Course discontinued: No further intakes. This course has been replaced by the Bachelor of Applied Science (Quantity Surveying) (CN43). Years 2 to 4 are offered to continuing students only.

Location: Gardens Point campus

¹⁰ See course requirements and notes relating to undergraduate courses.

Course Duration: 2 years full-time plus 2 years part-time, 6 years part-time

Total Credit Points: 286

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Don Campbell-Stewart

Professional Recognition

Completion of the Bachelor of Applied Science (Quantity Surveying) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed in a building or quantity surveying office under the direction of a qualified quantity surveyor for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final two year part-time segment of the course.

Part-time study generally involves 11-12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

For the first four years of the part-time course, a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
CNB013	Building Services 1 – HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 – Building Contracts	3	1
CNB443	Building Services 3	5	2.5
CNB527	PM2 – Quantitative Techniques	3	1.5
Year 2, Semester 2			
CNB014	Building Services 2 – Electrical	4	2
CNB243	Law 1 – Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB404	Building Management 2	4	2
CNB440/2	Law 3 – Building Contracts	3	1
CNB446	Estimating 1	5	2.5
CNB543	Law 4 – Torts & Arbitrations	3	1.5
Select one of the following units:			
CNB643	Law 5 – Commercial Law	3	1.5
	Elective Unit	3	
Year 3, Semester 1			
CNB341	Building & Civil Engineering Construction	4	2
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5

CNB540	Estimating 2	5	2.5
CNB545	PM3 – Construction Planning Techniques 1	7	3.5
Select one of the following units:			
CNB444	Mechanical & Electrical Estimating	4	2
	Elective Unit	4	

Year 3, Semester 2

CNB301	PM1 – Advanced Construction Methods	4	2
CNB462	Measurement of Construction 6	3	1.5
CNB502	Building Management 4	4	2
CNB520	Specifications	3	1.5
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB552	Office Management	2	1

Year 4, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
CNB603	Building Management 5	4	2
CNB623	PM6 – Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656/1	Building Research	8	4

Year 4, Semester 2

CEB901	Civil Engineering Quantities 2	4	2
CNB452	Computer Software Applications 2	4	2
CNB624	PM7 – Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	4	2
CNB656/2	Building Research	10	5

Part-Time Course Structure

Year 2, Semester 1

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	4	2

Year 2, Semester 2

CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 – Building Acts & Regulations	5	2
CNB254	Construction 4	12	6

Year 3, Semester 1

CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 – HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 – Principles & Property	3	1.5
CNB442/1	Valuation & Dilapidations	4	2
PSB904	Surveying & Measuring	4	2

Year 3, Semester 2

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 – Electrical	4	2
CNB347	Hygiene & Sanitation	4	2
CNB442/2	Valuation & Dilapidations	2	1
CNB520	Specifications	3	1.5

Select one unit from the following:

CNB343	Economics of the Construction Industry	4	2
	Elective Unit	4	

Year 4, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 – Building Contracts	3	1

CNB443	Building Services 3	5	2.5
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5

Year 4, Semester 2

CEB901	Civil Engineering Quantities 2	4	2
CNB301	PM1 – Advanced Construction Methods	4	2
CNB404	Building Management 2	4	2
CNB440/2	Law 3 – Building Contracts	3	1
CNB446	Estimating 1	5	2.5
CNB462	Measurement of Construction 6	3	1.5

Year 5, Semester 1

CNB501	Building Management 3	4	2
CNB527	PM2 – Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 – Construction Planning Techniques 1	7	3.5

Select one of the following units:

CNB444	Mechanical & Electrical Estimating	4	2
	Elective Unit	4	

Year 5, Semester 2

CNB502	Building Management 4	4	2
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB543	Law 4 – Torts & Arbitrations	3	1.5
CNB552	Office Management	2	1

Select one of the following units:

CNB643	Law 5 – Commercial Law	3	1.5
	Elective Unit	3	

Year 6, Semester 1

CNB603	Building Management 5	4	2
CNB623	PM6 – Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656/1	Building Research	8	4

Year 6, Semester 2

CNB452	Computer Software Applications 2	4	2
CNB624	PM7 – Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	4	2
CNB656/2	Building Research	10	5

Elective Units

Elective units may be taken from any other course offered by the University in consultation with the Course Coordinator.

■ Bachelor of Applied Science (Surveying) (SV34)¹⁰

Course Discontinued: This course has been replaced by the Bachelor of Surveying (PS47). There will be no intakes. Year 3 is offered to continuing students only.

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 290

Standard Credit Points/Full-Time Semester: 48

¹⁰ See course requirements and notes relating to undergraduate courses.

Course Coordinator: Associate Professor Brian Hannigan

Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirements

Students must obtain at least 90 days of industrial employment/practice in a surveying environment approved by the Course Coordinator.

Students must, not later than the fourth week of semester immediately following each period of industrial employment/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office, or the Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial employment/practice.

Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
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SURVEYING MAJOR

Year 3, Semester 1

SVB443	Photogrammetry 2	11	6
SVB470	Land Administration 2	4	2
SVB535	Land Surveying 5	5	3
SVB551	Land Valuation	6	3
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastral	4	2
SVB683/1	Project	4	1

Year 3, Semester 2

SVB636	Land Surveying 6	6	3
SVB639	Observations & Adjustments 3	4	2
SVB640	Geodesy	6	3
SVB664	Land Development Practice 2	10	6
SVB680	Professional Practice	6	3
SVB682	Seminar 2	2	1
SVB683/2	Project	4	1
	Two Elective Units	10	

CARTOGRAPHY MAJOR

Year 3, Semester 1

SVB443	Photogrammetry 2	11	6
SVB470	Land Administration 2	4	2
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastral	4	2
SVB685/1	Project	8	4

Year 3, Semester 2

SVB639	Observations & Adjustments 3	4	2
SVB664	Land Development Practice 2	10	6
SVB680	Professional Practice	6	3
SVB682	Seminar 2	2	1
SVB685/2	Project	8	4
	Two Elective Units	10	

Elective Units

CEB504	Engineering Science 3	5	3
SVB634	Topics in Engineering Surveying	5	3
SVB643	Photogrammetry 3	5	3
SVB645	Remote Sensing	5	3
SVB670	Land Administration 5	5	3
SVB684	Map Production Planning	5	3
SVB694	Geodesy 2	5	3

■ Bachelor of Architecture (AR48)¹⁰

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 384

Standard Credit Points/Part-Time Semester: 32

Course Coordinator: Mr Dan Nutter

Professional Recognition

On completion of the course and one year's postgraduate practical experience, graduates are eligible to apply for associate membership of the Royal Australian Institute of Architects and are eligible to apply to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

A Bachelor of Architecture student must be engaged in approved employment for at least 48 recognised weeks within the first 3 years (Approved Employment A) and for at least 72 recognised weeks within the second 3 years (Approved Employment B). For details refer to the Section "Course Requirements and Notes relating to Undergraduate Courses" on page 261.

Segmented Course Units

Where course units contain discrete segments identified in the synopsis:

1. Students are generally expected to pass all segments in order to pass the course unit.
2. Where one segment only is failed, and the percentage attained in that segment is not less than 45%, the final grade for the course will be aggregated for results in all segments.
3. Where more than one segment is failed, or where one segment is failed at a percentage lower than 45%, a fail result will be given for the course unit.
4. In these cases the student must enrol in the course unit in the following year, but will only be required to repeat the failed segment or segments.

The final grade for the unit will be aggregated from new passing results in segments repeated together with original results in segments passed previously.

¹⁰ See course requirements and notes relating to undergraduate courses.

5. Segments required to be repeated will take precedence over new units if timetable clashes occur.
6. Students in transition from AR41 or old AR48 to new structure AR48 and who have failed a unit which is now a segment of a larger unit, will be required to repeat the old unit.
7. Where students are exempted from segments of a unit due to previous study outside of AR41 or AR48. They must enrol in the unit but will not be required to undertake the exempted segments.

The final grade for the unit will be aggregated from the grades attained in the segments undertaken.

Part-time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

ARB001	Architectural Design 1	12	8
ARB011	Contextual Studies 1	6	3
ARB021	Technology & Science 1	8	3
COB163	Professional Writing	6	1.5

Year 1, Semester 2

ARB002	Architectural Design 2	12	8
ARB012	Contextual Studies 2	8	3
ARB022	Technology & Science 2	12	5

Year 2, Semester 1

ARB003	Architectural Design 3	12	6
ARB013	Contextual Studies 3	8	4
ARB023	Technology & Science 3	12	4

Year 2, Semester 2

ARB004	Architectural Design 4	12	6
ARB014	Contextual Studies 4	8	4
ARB024	Technology & Science 4	12	4

Year 3, Semester 1

ARB005	Architectural Design 5	12	6
ARB015	Contextual Studies 5	8	3
ARB025	Technology & Science 5	12	6

Year 3, Semester 2

ARB006	Architectural Design 6	12	6
ARB016	Contextual Studies 6	8	3
ARB026	Technology & Science 6	12	5
ARB795	Approved Employment A		

Year 4, Semester 1

ARB007/1	Architectural Design 7	12	6
ARB017	Contextual Studies 7	6	2
ARB031/1	Professional Studies 1	8	3
ARB045	Elective A	6	2

Year 4, Semester 2

ARB007/2	Architectural Design 7	12	6
ARB027	Technology & Science 7	6	2
ARB031/2	Professional Studies 1	8	3
ARB046	Elective B	6	2

Year 5, Semester 1

ARB008/1	Architectural Design 8	12	6
ARB032/1	Professional Studies 2	8	3
ARB047	Elective C	6	2
ARB051	Research Methods	6	2

Year 5, Semester 2

ARB008/2	Architectural Design 8	12	6
ARB018	Contextual Studies 8	6	2
ARB032/2	Professional Studies 2	8	3
ARB052	Architectural Research 1	6	2

Year 6, Semester 1

ARB033/1	Professional Studies 3	8	2
ARB053	Architectural Research 2	24	6

Year 6, Semester 2

ARB033/2	Professional Studies 3	8	2
ARB054	Architectural Project	24	6
ARB796	Approved Employment B		

■ Bachelor of Architecture (AR41)

Course Discontinued: No further intakes. This course has been replaced by the Bachelor of Architecture (AR48). Years 3 to 6 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 288

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Dan Nutter

Professional Recognition

On completion of the course and one year's postgraduate practical experience graduates are eligible for associate membership of the Royal Australian Institute of Architects and are eligible to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

- (i) Except as provided in (ii) below, a student must be engaged in approved employment for 11 months per year for four of the six years of the course, including one of the two final years. Approved employment is defined as working under the direction of an architect or, for a period not exceeding six months, gaining experience in a related field approved by the Head of School. Students should work under the same employer for at least six months. Students **must enrol** in approved employment units in the semester (or summer school period) in which they expect to finalise the specific approved employment unit involved, so that they can be credited with a result for the unit. All necessary documentation must be forwarded to the Course Coordinator in time for the unit to be finalised by the end of the semester in which the student is enrolled.
- (ii) A student who is admitted with advanced standing and who is granted exemption from all units in the first three years of the course may be granted exemption from the unit ARB791 Approved Employment 1.

Part-Time Course Structure

Year 3, Semester 1

		Credit Points	Contact Hrs/Wk
ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB393	Design 5	8	4
ARB395	Building Construction 3	3	1.5

ARB544	Landscape Architecture in the Built Environment	2	1
CEB559	Principles of Structures 3	3	2
Year 3, Semester 2			
ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB394	Design 6	8	4
ARB396	Building Construction 4	3	1.5
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2
Year 4, Semester 1			
ARB491/1	History of Architecture & Art 3	2	1
ARB493/1	Design 7	10	5
ARB495/1	Professional Studies 1	8	4
ARB497/1	Advanced Technology	4	2
Year 4, Semester 2			
ARB491/2	History of Architecture & Art 3	2	1
ARB493/2	Design 7	10	5
ARB495/2	Professional Studies 1	8	4
ARB497/2	Advanced Technology	4	2
Year 5, Semester 1			
ARB591/1	History of Architecture & Art 4	2	1
ARB593/1	Design 8	10	5
ARB595/1	Professional Studies 2	8	4
ARB590	Elective 1A	4	2
Year 5, Semester 2			
ARB591/2	History of Architecture & Art 4	2	1
ARB593/2	Design 8	10	5
ARB595/2	Professional Studies 2	8	4
ARB598	Elective 1B	4	2
Year 6, Semester 1			
ARB693	Design 9	16	5
ARB695/1	Professional Studies 3	4	2
ARB697/1	Elective 2	4	2
Year 6, Semester 2			
ARB695/2	Professional Studies 3	4	2
ARB697/2	Elective 2	20	5
Approved Employment Units			
ARB791	Approved Employment 1		
ARB792	Approved Employment 2		
ARB793	Approved Employment 3		
ARB794	Approved Employment 4		

■ Bachelor of Built Environment (BN30)¹⁰

With majors in: Architectural Studies, Industrial Design, Interior Design, Landscape Architecture, and Urban and Regional Planning

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

¹⁰ See course requirements and notes relating to undergraduate courses.

Majors Coordinators:

Architectural Studies: Mr Dan Nutter

Industrial Design: Associate Professor Vesna Popovic

Interior Design: Mr Peter Hedley

Landscape Architecture: Ms Delwynn Poulton

Urban and Regional Planning: Ms Janelle Allison

Professional Recognition**ARCHITECTURAL STUDIES MAJOR**

The Bachelor of Built Environment (Architectural Studies) must be completed before students are eligible to apply for entry to the fourth year of the part-time Bachelor of Architecture course.

Upon completion of the final three years of the Bachelor of Architecture course, during which time students have been employed in an approved professional practice for a minimum of 72 recognised weeks, the academic requirements for membership of professional bodies are met.

INDUSTRIAL DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Industrial Design) satisfies the entry requirement for the Graduate Diploma in Industrial Design, graduates of which are eligible for Associate Membership of the Design Institute of Australia.

INTERIOR DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Interior Design) satisfies the requirements for entry into the Graduate Diploma in Interior Design, which is accredited by the Design Institute of Australia.

LANDSCAPE ARCHITECTURE MAJOR

Successful performance in the Bachelor of Built Environment (Landscape Architecture) enables students to gain entry to the Graduate Diploma course. The Graduate Diploma in Landscape Architecture is the only course in Landscape Architecture in Queensland, and one of the courses in Landscape Architecture accredited by the Australian Institute of Landscape Architects.

URBAN AND REGIONAL PLANNING MAJOR

Successful completion of the Bachelor of Built Environment (Urban and Regional Planning) enables students to gain entry to the Graduate Diploma in Urban and Regional Planning, which is fully accredited by the Royal Australian Planning Institute.

Full-Time Structure

		Credit Points	Contact Hrs/Wk
ARCHITECTURAL STUDIES MAJOR			
Year 1 Semester 1			
ARB001	Architectural Design 1	12	8
ARB011	Contextual Studies 1	6	3
ARB021	Technology & Science 1	8	3
ARB061	Architectural Applications 1	12	4
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
Year 1 Semester 2			
ARB002	Architectural Design 2	12	8
ARB012	Contextual Studies 2	8	3
ARB022	Technology & Science 2	12	5
ARB062	Architectural Applications 2	8	4
ARB071	Environmental Studies	6	2

Year 2 Semester 1

ARB003	Architectural Design 3	12	6
ARB013	Contextual Studies 3	8	4
ARB023	Technology & Science 3	12	4
ARB041	Elective 1	6	2
ARB063	Architectural Applications 3	12	4

Year 2 Semester 2

ARB004	Architectural Design 4	12	6
ARB014	Contextual Studies 4	8	4
ARB024	Technology & Science 4	12	4
ARB042	Elective 2	6	2
ARB064	Architectural Applications 4	8	4

Year 3 Semester 1

ARB005	Architectural Design 5	12	6
ARB015	Contextual Studies 5	8	3
ARB025	Technology & Science 5	12	6
ARB043	Elective 3	6	2
ARB065	Architectural Applications 5	12	4

Year 3 Semester 2

ARB006	Architectural Design 6	12	6
ARB016	Contextual Studies 6	8	3
ARB026	Technology & Science 6	12	5
ARB044	Elective 4	6	2
ARB066	Architectural Applications 6	8	4

INDUSTRIAL DESIGN MAJOR

Year 1, Semester 1

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB147	History of the Built Environment 1	6	3
ARB151	Design Technology & Society	2	1
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3

Year 1, Semester 2

ARB241	History of the Built Environment 2	6	3
ARB248	Introductory Design 2	18	9
ARB249	The Human Environment 2	6	2
ARB251	Ergonomics for Industrial Designers 1	4	2
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB054	Environmental Science	4	2

Year 2, Semester 1

ARB291	The Human Environment 3	4	2
ARB350	Industrial Design 1	18	8
ARB351	Ergonomics for Industrial Designers 2	4	2
ARB352	Visual Communication for Industrial Designers 1	4	2
ARB353	Manufacturing Technology 1	14	6
ARB354	Computer-aided Industrial Design 1	4	2

Year 2, Semester 2

ARB292	The Human Environment 4	4	2
ARB444	Environmental Impact	2	1
ARB450	Industrial Design 2	20	6
ARB452	Visual Communication for Industrial Designers 2	4	2
ARB453	Manufacturing Technology 2	10	5
ARB454	Computer-aided Industrial Design 2	4	2
MEB010	Dynamics 1	4	2

Year 3, Semester 1

ARB550	Industrial Design 3	20	6
ARB552	Visual Communication for Industrial Designers 3	4	2
ARB553	Manufacturing Technology 3	8	3
ARB554	Computer-aided Industrial Design 3	4	2
ARB555	Economics of Industrial Production	4	2
ARB556	Product Analysis & Development	4	2
MEB012	Dynamics 2	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB650	Industrial Design 4	20	6
ARB652	Visual Communication for Industrial Designers 4	4	2
ARB653	Manufacturing Technology 4	14	5
ARB654	Computer-aided Industrial Design 4	6	2

INTERIOR DESIGN MAJOR**Year 1, Semester 1**

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB146	Introduction to Interior Technology 1	6	2
ARB147	History of the Built Environment 1	6	3
ARB161	Light & Colour Studies	8	3
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5

Year 1, Semester 2

ARB241	History of the Built Environment 2	6	3
ARB246	Introduction to Interior Technology 2	14	5
ARB248	Introductory Design 2	18	9
ARB249	The Human Environment 2	6	2
PSB054	Environmental Science	4	2

Year 2, Semester 1

ARB291	The Human Environment 3	4	2
ARB360	Interior Design 1	18	7
ARB361	Interior Technology 1	18	6
ARB362	Furniture & Fittings 1	4	2
ARB363	Visual Communication for Interior Designers 1	4	2

Year 2, Semester 2

ARB292	The Human Environment 4	4	2
ARB444	Environmental Impact	2	1
ARB460	Interior Design 2	16	7
ARB461	Interior Technology 2	16	6
ARB462	Furniture & Fittings 2	6	2
ARB463	Visual Communication for Interior Designers 2	4	2

Year 3, Semester 1

ARB560	Interior Design 3	20	6
ARB561	Interior Technology 3	16	7
ARB562	Furniture & Fittings 3	8	2
ARB563	Visual Communication for Interior Designers 3	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB660	Interior Design 4	18	6
ARB661	Interior Technology 4	14	6
ARB662	Furniture & Fittings 4	8	2
ARB663	Research Methods	4	2

LANDSCAPE ARCHITECTURE MAJOR**Year 1, Semester 1**

BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5

MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PSB010	Introductory Design 1	12	6
PSB016	History of the Built Environment 1	6	3
PSB050	The Human Environment 1	4	2
PSB070	Map & Air Photo Interpretation	2	1

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054	Environmental Science	4	2
PSB056	Applied Land Science for Designers	4	1

Year 2, Semester 1

PSB012	Planning & Landscape Design 1	21	9
PSB030	Introduction to the Professions	3	1
PSB040	Graphic Communication	6	3
PSB052	The Human Environment 3	6	3
PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	1

Year 2, Semester 2

PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	3
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	2
PSB073	Computer Techniques	4	2

Year 3, Semester 1

PSB014	Planning & Landscape Design 3	20	6
PSB018	Land Use Generation	4	2
PSB041	Report Preparation	2	1
PSB074	Land Development	8	3
PSB230	Quantities & Costs	2	1
PSB244	Landscape Graphics	6	2
PSB275	Landscape Construction 1	6	3

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PSB015	Planning & Landscape Design 4	20	6
PSB019	Planting Design	3	1
PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2	1
PSB061	Impacts & Assessment	5	2
PSB276	Landscape Construction 2	4	2
PSB280	Elective Unit (Landscape Architecture)	4	2

URBAN AND REGIONAL PLANNING MAJOR

Year 1, Semester 1

BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PSB010	Introductory Design 1	12	6
PSB016	History of the Built Environment 1	6	3
PSB050	The Human Environment 1	4	2
PSB070	Map & Air Photo Interpretation	2	1

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054	Environmental Science	4	2
PSB056	Applied Land Science for Designers	4	1

Year 2, Semester 1

PSB012	Planning & Landscape Design 1	21	9
PSB030	Introduction to the Professions	3	1
PSB040	Graphic Communication	6	3
PSB052	The Human Environment 3	6	3
PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	1

Year 2, Semester 2

PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	3
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	2
PSB073	Computer Techniques	4	2

Year 3, Semester 1

PSB014	Planning & Landscape Design 3	20	6
PSB018	Land Use Generation	4	2
PSB041	Report Preparation	2	1
PSB062	Economics of Town Planning	5	2
PSB074	Land Development	8	3
PSB077	Transport Planning	6	2
PSB190	Elective Unit (Planning)	3	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PSB015	Planning & Landscape Design 4	20	6
PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2	1
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB078	Urban Land Development	6	2

■ Bachelor of Engineering (Aerospace Avionics) (EE43)**Location:** Gardens Point campus**Course Duration:** 4 years full-time**Total Credit Points:** 384**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Associate Professor Farhan Faruqi

Note: The new course structure listed below will be introduced from 1995. Students entering the course in 1995 will follow the new course structure. Continuing students should refer to their course summary sheets or contact the School of Electrical and Electronic Systems Engineering for enrolment details.

Course Structure (Commencing Students)		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics 1	6	3

CHB002	Introduction to Engineering Chemistry ¹¹	(2)	(1)
CSB192	Introduction to Computing	8	3
EEB101	Circuits & Measurements	6	3
MAB103	Introductory Engineering Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3

Select one of the following units:

MEB121	Engineering Graphics	6	3
MEB133	Materials	6	3

Year 1, Semester 2

COB163	Professional Writing	6	1.5
EEB203	Circuit Analysis	6	3
EEB270	Digital Design Principles	6	3
EEB271	Basic Electronic Devices	8	3
MAB188	Engineering Mathematics 1B	8	3
PHB234	Engineering Physics 2B	8	3

Select the unit not undertaken in Semester 1:

MEB121	Engineering Graphics	6	3
MEB133	Materials	6	3

Year 2, Semester 1

EEB303	Network Theory 1	6	3
EEB362	Introduction to Communications Systems	6	3
EEB374	Electronic Circuit Analysis	6	3
EEB380	Engineering Management Skills	8	3
EEB390	Engineering Computing 1	8	3
MAB487	Engineering Mathematics 2A	8	3
MEB362	Thermofluids	6	3

Year 2, Semester 2

EEB401	Network Theory 2	6	3
EEB420	Control Systems 1	6	3
EEB475	Microprocessor Systems	6	3
EEB692	Space Technology	6	3
MAB488	Engineering Mathematics 2B	8	3
MEB111	Dynamics	8	3
MEB454	Aerodynamics 1	8	3

Year 3, Semester 1

EEB563	Signals & Linear Systems	6	3
EEB580	Aerospace Design 1	6	3
EEB593	Software Systems Engineering	6	3
MAB893	Engineering Mathematics 3	8	3
MEB553	Aerodynamics 2	6	3
MEB690	Aircraft Systems	8	3
	Elective Unit 1 (Select from List A)	8	

Year 3, Semester 2

EEB624	Control Systems 2	8	3
EEB680	Aerospace Design 2	8	3
EEB682	Engineering Business Skills	8	3
MEB551	Propulsion & Engines	8	3
MEB611	Stability & Control of Aircraft	8	3
	Elective Unit 2 (Select from List B)	8	

Year 4, Semester 1

EEB784/1	Aerospace Project	16	6
EEB821	Production Technology & Quality	8	3

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

EEB780	Aerospace Design 3	8	3
	Elective Unit 3 (select from List C)	8	3
	Elective Unit 4 (select from List C)	8	3
Year 4, Semester 2			
EEB784/2	Aerospace Project	16	6
EEB820	Engineering Management	8	3
	Elective Unit 5 (Select from List D)	8	3
	Elective Unit 6 (Select from List D)	8	3
	Elective Unit 7 (Select from List D)	8	3

ELECTIVE LISTS

List A

"A" Elective Units:

EEB473	Integrated Electronics	8	3
EEB661	Information Theory Modulation & Noise	8	3
EEB691	Aeronautical Computing	8	3

List B

"A" Elective Units:

EEB562	Transmission & Propagation	8	3
EEB602	Signal Processing	8	3
EEB722	Flight Control Systems	8	3
EEB967	Digital Communications	8	3

List C

"A" Elective Units:

EEB645	Remote Sensing	8	3
EEB662	Microwave & Antenna Technology	8	3
EEB762	Communications Technology	8	3
EEB947	Radar & Radio Navigation	8	3
EEB968	Digital Signal Processing	8	3
EEB971	Applied Electronics	8	3

Select one of the following units:

MEB790	Spacecraft & Satellite Design	8	3
	A third year "A" Elective not yet attempted		
	"B" Elective offered by the divisions (See list below for units offered. These will normally be run if enrolments are sufficient. Only one "B" elective may be chosen).		

List D

"A" Elective Units:

EEB822	Advanced Control Systems	8	3
EEB891	Signal Computing & Real Time DSP	8	3
EEB932	Automatic Flight Control	8	3
EEB933	Combat Systems	8	3
EEB934	Advance Communications & Navigations	8	3

Select one of the following units:

EEB935	Advanced Satellite Systems	8	3
	A Third year "A" Elective not yet attempted		
	"B" Elective offered by the divisions		

"B" Elective Units:

EEB761	Statistical Communications	8	3
EEB890	Advanced Information Technology Topics	8	3
EEB956	Photovoltaic Engineering	8	3
EEB962	Microwave Systems Engineering	8	3
EEB969	Digital Signal Filtering, Detection, Estimation and Classification (Semester 2)	8	3
EEB972	Integrated Electronic Techniques	8	3

At the discretion of the Course Coordinator, students may be allowed to select an elective from advanced topics offered by the Faculty of Applied Science, Faculty of Information Technology or other Schools in the Faculty of Built Environment and Engineering.

Also, potential honours students may, with the approval of the Course Coordinator, select an elective from the postgraduate or masters degree courses.

■ Bachelor of Engineering (Civil) (CE42)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Associate Professor David Thambiratnam

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia.

Note: The new course structure listed below will be introduced from 1995. Students entering the course in 1995 will follow the new course structure. Continuing students should refer to their course summary sheet or contact the School of Civil Engineering for enrolment details.

Environmental Engineering Major

Students may elect to enter the environmental major of the course at the end of Year 1 full-time. This will involve taking over the length of the course 96 credit points of alternative core units, prescribed elective units from the main course and some environmental based topics in design units and project. Further information about the Environmental Engineering major is available from the School of Civil Engineering.

Course Structure (Commencing Students)

Full-Time Course Structure

Year 1, Semester 1

	Credit Points	Contact Hrs/Wk
BNB002 Introduction to Engineering	6	3
CEB184 Engineering Mechanics 1 ¹³	6	3
CHB002 Introduction to Engineering Chemistry ¹¹	(2)	(1)
CSB192 Introduction to Computing	8	3
EEB101 Circuits & Measurements	6	3
MAB103 Introductory Mathematics ¹²	(8)	(3)
MAB187 Engineering Mathematics 1A ¹³	8	3
PHB134 Engineering Physics 1B	8	3
Select one unit from the following:		
MEB121 Engineering Graphics ¹⁵	6	3
MEB133 Materials ¹⁵	6	3

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

¹³ Students who have not successfully completed these subjects may enrol in summer school units. Details are available from the course coordinator.

¹⁵ To spread the load on the computer laboratories students will be allocated to one or other of MEB121 or MEB133.

Year 1, Semester 2

CEB185	Engineering Mechanics 2 ¹³	6	3
COB163	Professional Writing	6	1.5
ESB229	Geology for the Built Environment	6	2
MAB188	Engineering Mathematics 1B	8	3
PSB907	Surveying	8	3
SCB246	Engineering Physics and Chemistry	8	3
Select one unit not undertaken in Semester 1:			
MEB121	Engineering Graphics ¹⁵	6	3
MEB133	Materials ¹⁵	6	3

Students **not** enrolled for the Environmental Major complete these units:

Year 2, Semester 1

CEB221	Engineering Investigation Analysis & Reporting	8	4
CEB240	Soil Mechanics 1 ²	8	3.5
CEB254	Structural Engineering 1	8	3.5
CEB260	Fluid Mechanics	8	3.5
CEB293	Engineering Science	8	4
MAB487	Engineering Mathematics 2A	8	3

Year 2, Semester 2

CEB201	Steel Structures	8	3.5
CEB202	Concrete Structures 1 ²	8	3.5
CEB211	Highway Engineering	8	4
CEB241	Soil Mechanics 2 ²	8	3
CEB255	Structural Engineering 2	8	3.5
CEB261	Hydraulic Engineering 1	8	3.5

Year 3, Semester 1

CEB304/1	Civil Engineering Design 1	8	3.5
CEB306	Concrete Structures 2	8	3
CEB307	Construction Practice	8	3.5
CEB362	Hydraulic Engineering 2	8	3
CEB370	Public Health Engineering	8	3.5
MAB893	Engineering Mathematics 3	8	3

Year 3, Semester 2

CEB304/2	Civil Engineering Design 1	8	3.5
CEB305	Construction Planning & Economics ²	8	3
CEB313	Traffic Engineering	8	3
CEB341	Geotechnical Engineering 1	8	3
CEB355	Structural Engineering 3	8	3
CEB371	Water & Wastewater Systems	8	3

Year 4, Semester 1

CEB403	Professional Practice	8	3
CEB405/1	Civil Engineering Design 2	8	3
CEB406	Structural Applications	8	3
CEB491/1	Project (Civil)	8	3
	Elective Unit	8	
	Elective Unit	8	

Year 4, Semester 2

CEB401	Design Project	8	3
CEB405/2	Civil Engineering Design 2	8	3
CEB491/2	Project (Civil)	8	3
	Elective Unit	8	
	Elective Unit	8	
	Elective Unit	8	

² Safety boots must be worn for practical exercises and field trips.

¹³ Students who have not successfully completed these subjects may enrol in summer school units. Details are available from the course coordinator.

¹⁵ To spread the load on the computer laboratories students will be allocated to one or other of MEB121 or MEB133.

Students enrolled for the Environmental Major complete these units:

Year 2, Semester 1

CEB221	Engineering Investigation Analysis & Reporting	8	4
CEB240	Soil Mechanics 1 ²	8	3.5
CEB254	Structural Engineering 1	8	3.5
CEB260	Fluid Mechanics	8	3.5
CEB293	Engineering Science	8	4
MAB487	Engineering Mathematics 2A	8	3

Year 2, Semester 2

CEB201	Steel Structures	8	3.5
CEB202	Concrete Structures 1 ²	8	3.5
CEB241	Soil Mechanics 2	8	3
CEB255	Structural Engineering 2	8	3.5
CEB261	Hydraulic Engineering 1	8	3.5
CEB270	Environmental Science	8	3

Year 3, Semester 1

CEB304/1	Civil Engineering Design 1	8	3.5
CEB307	Construction Practice	8	3.5
CEB362	Hydraulic Engineering 2	8	3
CEB370	Public Health Engineering	8	3.5
CEB372	Environmental Technology	8	3
MAB893	Engineering Mathematics 3	8	3

Year 3, Semester 2

CEB211	Highway Engineering	8	4
CEB304/2	Civil Engineering Design 1	8	3.5
CEB305	Construction Planning and Economics ²	8	3
CEB313	Traffic Engineering	8	3
CEB371	Water & Wastewater Systems	8	3
CEB543	Environmental Geotechnology	8	3

Year 4, Semester 1

CEB403	Professional Practice	8	3
CEB406	Structural Applications	8	3
CEB475/1	Environmental Engineering Design	8	4
CEB491/1	Project (Civil)	8	3
CEB561	Coastal Engineering	8	3
CEB570	Waste Management	8	3

Year 4, Semester 2

CEB341	Geotechnical Engineering 1	8	3
CEB471	Environmental Design Project	8	3
CEB475/2	Environmental Engineering Design	8	3
CEB491/2	Project (Civil)	8	3
CEB502	Project Control	8	3
CEB575	Environmental Impact Assessment	8	3

Part-time Course Structure

Year 1, Semester 1

BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics 1	6	3
CHB002	Introduction to Engineering Chemistry ¹¹	(2)	(1)
EEB101	Circuits & Measurements	6	3
MAB103	Introduction to Engineering Mathematics ¹²	(8)	(3)

² Safety boots must be worn for practical exercises and field trips.

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

MAB187	Engineering Mathematics 1A	8	3
MEB121	Engineering Graphics ¹⁵	6	3
Year 1, Semester 2			
CEB185	Engineering Mechanics 2	6	3
COB163	Professional Writing	6	1.5
ESB229	Geology for the Built Environment	6	2
MAB188	Engineering Mathematics 1B	8	3
MEB133	Materials ¹⁵	6	3
Year 2, Semester 1			
CEB254	Structural Engineering 1	8	3.5
CEB293	Engineering Science	8	4
CSB192	Introduction to Computing	8	2
PHB134	Engineering Physics 1B	8	3
Year 2, Semester 2			
CEB202	Concrete Structures 1	8	3.5
CEB255	Structural Engineering 2	8	3.5
PSB907	Surveying	8	3
SEB246	Engineering Physics and Chemistry	8	3
Year 3, Semester 1			
CEB221	Eng Investigation Analysis & Reporting	8	4
CEB240	Soil Mechanics 1 ²	8	3.5
CEB260	Fluid Mechanics	8	3.5
MAB487	Engineering Mathematics 2A	8	3
Year 3, Semester 2			
CEB201	Steel Structures	8	3.5
CEB211	Highway Engineering	8	4
CEB241	Soil Mechanics 2	8	3
CEB261	Hydraulic Engineering 1	8	3.5
Year 4, Semester 1			
CEB306	Concrete Structures 2	8	3
CEB362	Hydraulic Engineering 2	8	3
CEB370	Public Health Engineering	8	3.5
MAB893	Engineering Mathematics 3	8	3
Year 4, Semester 2			
CEB305	Construction Planning & Economics ²	8	3
CEB313	Traffic Engineering	8	3
CEB341	Geotechnical Engineering 1	8	3
CEB371	Water & Wastewater Systems	8	3
Year 5, Semester 1			
CEB304/1	Civil Engineering Design 1	8	3.5
CEB307	Construction Practice	8	3.5
CEB403	Professional Practice	8	3
CEB406	Structural Applications	8	3
Year 5, Semester 2			
CEB304/2	Civil Engineering Design 1	8	3.5
CEB355	Structural Engineering 3	8	3
	Elective Unit	8	
	Elective Unit	8	
Year 6, Semester 1			
CEB405/1	Civil Engineering Design 2	8	4
CEB491/2	Project (Civil)	8	3
	Elective Unit	8	
	Elective Unit	8	

² Safety boots must be worn for practical exercises and field trips.

¹⁵ To spread the load on the computer laboratories students will be allocated to one or other of MEB121 or MEB133.

Year 6, Semester 2

CEB401	Design Project	8	3
CEB405/2	Civil Engineering Design 2	8	3
CEB491/2	Project (Civil)	8	3
	Elective Unit	8	

Note: Part-time students who wish to do the Environmental Major must discuss their program with the Course Coordinator.

Elective Units		Credit Points	Contact Hrs/Wk
FIRST SEMESTER			
BNB003	Professional Practice in Asia/Pacific ¹⁶	8	3
CEB501	Civil Engineering Practice 1	8	3
CEB505	Project Management & Administration	8	3
CEB512	Transport Engineering 1	8	3
CEB520	Finite Element Methods	8	3
CEB541	Geotechnical Engineering 2	8	3
CEB561	Coastal Engineering	8	3
CEB570	Waste Management	8	3
SECOND SEMESTER			
CEB502	Project Control	8	3
CEB503	Advanced Construction Methods	8	3
CEB506	Civil Engineering Practice 2	8	3
CEB511	Transport Engineering 2	8	3
CEB531	Masonry Design	8	3
CEB542	Geotechnical Engineering 3	8	3
CEB543	Environmental Geotechnology	8	3
CEB551	Advanced Structural Design	8	3
CEB560	Hydraulic Engineering 3	8	3
CEB575	Environmental Impact Assessment	8	3

Note:

1. Students' elective programs are subject to approval by the Course Coordinator.
2. Students may choose approved units from mathematics, computing or other degrees subject to approval by the Course Coordinator.

■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Tee Tang

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia and of the Institution of Radio and Electronics Engineers.

Note: The new course structure listed below will be introduced from 1995. Students entering the course in 1995 will follow the new course structure. Continuing students should refer to their course summary sheets or contact the School of Electrical and Electronic Systems Engineering for enrolment details.

¹⁶ Under negotiation.

Course Structure (Commencing Students)

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics 1	6	3
CHB002	Introduction to Engineering Chemistry ¹¹	(2)	(1)
CSB192	Introduction to Computing	8	3
EEB101	Circuits & Measurements	6	3
MAB103	Introductory Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3
Select one unit from the following:			
MEB121	Engineering Graphics	6	3
MEB133	Materials 1	6	3
Year 1, Semester 2			
COB163	Professional Writing	6	1.5
EEB203	Circuit Analysis	6	3
EEB270	Digital Design Principles	6	3
EEB271	Basic Electronic Devices	8	3
MAB188	Engineering Mathematics 1B	8	3
PHB234	Engineering Physics 2B	8	3
Select the unit not undertaken in Semester 1:			
MEB133	Materials 1	6	3
MEB121	Engineering Graphics	6	3
Year 2, Semester 1			
EEB302	Electrotechnology 1	6	3
EEB303	Network Theory 1	6	3
EEB362	Introduction to Communications Systems	6	3
EEB374	Electronic Circuit Analysis	6	3
EEB380	Engineering Management Skills	8	3
EEB390	Engineering Computing 1	8	3
MAB487	Engineering Mathematics 2A	8	3
Year 2, Semester 2			
EEB400	Electrotechnology 2	6	3
EEB401	Network Theory 2	6	3
EEB420	Control Systems 1	6	3
EEB475	Microprocessor Systems	6	3
EEB587	Design 1	8	3
MAB488	Engineering Mathematics 2B	8	3
MEB111	Dynamics	8	3
Year 3, Semester 1			
EEB473	Integrated Electronics	8	3
EEB530	Engineering Electromagnetics	6	3
EEB563	Signals & Linear Systems	6	3
EEB593	Software Systems Engineering	6	3
EEB788	Design 2	6	3
MAB893	Engineering Mathematics 3	8	3
	Elective Unit 1 (Select from List A)	8	3
Year 3, Semester 2			
EEB562	Transmission & Propagation	8	3
EEB601	Real-time Operating Systems	8	3

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

EEB602	Signal Processing	8	3
EEB624	Control Systems 2	8	3
EEB682	Engineering Business Skills	8	3
	Elective Unit 2 (Select from List B)	8	3

Year 4, Semester 1

EEB789/1	Project	16	6
EEB821	Production Technology & Quality	8	3
EEB887	Design 3	8	3
	Elective Unit 3 (Select from List C)	8	3
	Elective Unit 4 (Select from List C)	8	3

Year 4, Semester 2

EEB789/2	Project	16	6
EEB820	Engineering Management	8	3
	Elective 5 (Select from List D)	8	3
	Elective 6 (Select from List D)	8	3
	Elective 7 (Select from List D)	8	3

ELECTIVE LISTS

List A

"A" Electives

EEB532	Power Systems 1	8	3
EEB661	Information Theory Modulation & Noise	8	3

List B

"A" Electives

EEB632	Power Systems 2	8	3
EEB967	Digital Communications	8	3

List C

"A" Electives

EEB662	Microwave & Antenna Technology	8	3
EEB742	Power Systems Engineering	8	3
EEB762	Communications Technology	8	3
EEB791	Advanced Engineering Computing 1	8	3
EEB968	Digital Signal Filtering, Detection, Estimation and Classification	8	3
EEB971	Applied Electronics	8	3
	OR		
	A third year "A" Elective not yet attempted		
	OR		
	"B" Elective offered by the divisions		

See list below for units offered. These will normally be run if enrolments are sufficient.
Only one "B" elective may be chosen.

List D

"A" Electives

EEB652	Power Electronics	8	3
EEB741	Power Systems Analysis	8	3
EEB822	Advanced Control Systems	8	3
EEB891	Signal Computing & Real Time DSP	8	3
EEB892	Advanced Engineering Computing 2	8	3
EEB969	Signal Filtering and Estimation	8	3
	OR		
	A third year "A" Elective not yet attempted		
	OR		
	"B" Elective offered by the divisions		

"B" Electives

BNB003	Professional Practice in Asia/Pacific	8	3
EEB761	Statistical Communications	8	3
EEB890	Advanced Information Technology Topics	8	3

EEB922	Industrial Control Systems	8	3
EEB951	High Voltage Equipment	8	3
EEB954	Electrical Energy Utilisation	8	3
EEB955	Power Electronics Applications	8	3
EEB956	Photovoltaic Engineering	8	3
EEB962	Microwave Systems Engineering	8	3
EEB972	Integrated Electronic Techniques	8	3
EEB999	Advanced Electrical Engineering Topics	8	3

At the discretion of the Course Coordinator, students may be allowed to select an elective from advanced topics offered by the Faculty of Science, Faculty of Information Technology or other Schools in the Faculty of Built Environment and Engineering.

Also, potential honours students may, with the approval of the Course Coordinator, select an elective from the postgraduate or masters degree courses.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB002	Introduction to Engineering Chemistry ¹¹	(2)	(1)
CSB192	Introduction to Computing	8	3
EEB101	Circuits & Measurements	6	3
MAB103	Introductory Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
EEB203	Circuit Analysis	6	3
EEB271	Basic Electronic Devices	8	3
MAB188	Engineering Mathematics 1B	8	3
PHB234	Engineering Physics 2B	8	3
Year 2, Semester 1			
BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics 1	6	3
EEB303	Network Theory 1	6	3
MAB487	Engineering Mathematics 2A	8	3
MEB121	Engineering Graphics	6	3
Year 2, Semester 2			
COB163	Professional Writing	6	1.5
EEB270	Digital Design Principles	6	3
MAB488	Engineering Mathematics 2B	8	3
MEB111	Dynamics	8	3
MEB133	Materials	6	3
Year 3, Semester 1			
EEB302	Electrotechnology	6	3
EEB362	Introduction to Telecommunications	6	3
EEB374	Electronic Circuit Analysis	6	3
EEB380	Engineering Management Skills	8	3
EEB390	Engineering Computing 1	8	3
Year 3, Semester 2			
EEB400	Electrotechnology 2	6	3
EEB401	Network Theory 2	6	3
EEB420	Control Systems 1	6	3
EEB475	Microprocessor Systems	6	3
EEB587	Design 1	8	3

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

Year 4, Semester 1

EEB473	Integrated Electronics	8	3
EEB530	Engineering Electromagnetics	6	3
EEB563	Signals and Linear Systems	6	3
EEB788	Design 2	6	3
MAB893	Engineering Mathematics 3	8	3

Year 4, Semester 2

EEB562	Transmission and Propagation	8	3
EEB602	Signal Processing	8	3
EEB624	Control Systems 2	8	3
EEB682	Engineering Business Skills	8	3

Year 5, Semester 1

EEB593	Software Systems Engineering	6	3
EEB821	Production Technology & Quality	8	3
EEB887	Design 3	8	3
	Elective 1 (Select from List A)	8	3

Year 5, Semester 2

EEB601	Real-time Operating Systems	8	3
EEB789/1	Project	16	6
	Elective 2 (Select from List B)	8	3

Year 6, Semester 1

EEB789/2	Project	16	6
	Elective 3 (Select from List C)	8	3
	Elective 4 (Select from List C)	8	3

Year 6, Semester 2

EEB820	Engineering Management	8	3
	Elective 5 (Select from List D)	8	3
	Elective 6 (Select from List D)	8	3
	Elective 7 (Select from List D)	8	3

■ Bachelor of Engineering (Mechanical) (ME45)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Doug Hargreaves

Professional Recognition

This degree is recognised for the purpose of membership of the Institution of Engineers, Australia.

Note: The new course structure listed below will be introduced from 1995. Students entering the course in 1995 will follow the new course structure. Continuing students should consult the course summary sheet or the School of Mechanical and Manufacturing Engineering for transition arrangements.

Course structure (Commencing Students)

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics I	6	3
CHB002	Introduction to Engineering Chemistry ¹¹	(2)	(1)

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

CSB192	Introduction to Computing	8	3
EEB101	Circuits and Measurements	6	3
MAB103	Introductory Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3
Select one unit from the following:			
MEB121	Engineering Graphics	6	3
MEB133	Materials 1	6	3
Year 1, Semester 2			
COB163	Professional Writing	6	1.5
EEB209	Electrical Engineering 2M	6	3
MAB188	Engineering Mathematics 1B	8	3
MEB101	Design 1	8	3
MEB111	Dynamics	8	3
MEB212	Mechanics of Solids	6	3
Select the unit not undertaken in Semester 1:			
MEB121	Engineering Graphics	6	3
MEB133	Materials 1	6	3
Year 2, Semester 1			
MAB487	Engineering Mathematics 2A	8	3
MEB314	Mechanics 1	8	4
MEB334	Materials 2	8	4
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8	4
MEB381	Design 2	8	3
Year 2, Semester 2			
MAB488	Engineering Mathematics 2B	8	3
MEB430	Materials 3	8	4
MEB455	Thermodynamics 2	8	4
MEB465	Fluids 2	8	4
MEB473	Manufacturing Engineering 1	8	4
MEB483	Design 3	8	3
Year 3, Semester 1			
MAB893	Engineering Mathematics 3	8	3
MEB512	Noise and Vibrations	8	4
MEB513	Stress Analysis	8	4
MEB572	Manufacturing Engineering 2	8	4
MEB662	Fluid Power	8	4
	Elective Unit (select from List A)	8	
Year 3, Semester 2			
MEB554	Heat Transfer	8	4
MEB613	Mechanics 2	8	4
MEB641	Automation 1	8	4
MEB661	Tribology	8	4
MEB672	Total Quality Management	8	3
	Elective Unit (Select from List B)	8	
Year 4, Semester 1			
FNB116	Financial Management for Engineers	8	2
MEB711	Automation 2	8	4
MEB801/1	Project	16	6
MEB912	Finite Element Analysis	8	4
	Elective Unit (Select from List C)	8	3

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

Year 4, Semester 2

HRB111	Industrial Management	8	2
MEB775	Technology Management	8	3
MEB801/2	Project	24	6
	Elective Unit (Select from List D)	8	

Part-Time Course Structure

Year 1, Semester 1

BNB002	Introduction to Engineering	6	3
CEB184	Engineering Mechanics 1	6	3
CHB002	Introduction to Engineering Chemistry ¹²	(2)	(1)
MAB103	Introductory Mathematics ¹¹	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
MEB121	Engineering Graphics	6	3
PHB134	Engineering Physics 1B	8	3

Year 1, Semester 2

COB163	Professional Writing	6	1.5
MAB188	Engineering Mathematics 1B	8	3
MEB101	Design 1	8	3
MEB133	Materials 1	6	3
MEB212	Mechanics of Solids	6	3

Year 2, Semester 1

CSB192	Introduction to Computing	8	3
EEB101	Circuits and Measurements	6	3
MEB334	Materials 2	8	4
MEB352	Thermodynamics 1	8	4

Year 2, Semester 2

EEB209	Electrical Engineering 2M	6	3
MEB111	Dynamics	8	3
MEB430	Materials 3	8	4
MEB455	Thermodynamics 2	8	4

Year 3, Semester 1

MAB487	Engineering Mathematics 2A	8	3
MEB314	Mechanics 1	8	4
MEB363	Fluids 1	8	4
MEB381	Design 2	8	3

Year 3, Semester 2

MAB488	Engineering Mathematics 2B	8	3
MEB465	Fluids 2	8	4
MEB473	Manufacturing Engineering 1	8	4
MEB483	Design 3	8	3

Year 4, Semester 1

MAB893	Engineering Mathematics 3	8	3
MEB513	Stress Analysis	8	4
MEB572	Manufacturing Engineering 2	8	4
MEB662	Fluid Power	8	4

Year 4, Semester 2

MEB554	Heat Transfer	8	4
MEB613	Mechanics 2	8	4
MEB641	Automation 1	8	4
MEB672	Total Quality Management	8	3

¹¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

Year 5, Semester 1

FNB116	Financial Management for Engineers	8	2
MEB512	Noise and Vibrations	8	4
MEB711	Automation 2	8	4
	Elective Unit (Select from List A)	8	3

Year 5, Semester 2

HRB111	Industrial Management	8	2
MEB661	Tribology	8	4
MEB775	Technology Management	8	3
	Elective Unit (Select from List B)	8	3 or 4

Year 6, Semester 1

MEB801/1	Project	16	6
MEB912	Finite Element Analysis	8	3
	Elective Unit (Select from List C)	8	3

Year 6, Semester 2

MEB801/2	Project	24	9
	Elective Unit (Select from List D)	8	3

Elective Lists**List A**

MEB450	Air Conditioning	8	3
MEB500	Special Topic 1	8	3
MEB531	Advanced Materials	8	3
MEB676	Design for Manufacturing 1	8	3

List B

MEB601	Special Topic 2	8	3
MEB680	Advanced Mechanical Design	8	3
MEB873	Computer Integrated Manufacturing	8	4
MEB950	Process Plant Design	8	3

List C

MEB701	Special Topic 3	8	3
MEB774	Operations Management	8	3
MEB951	Energy and the Environment	8	3
MEB980	Design of Power Transmission Systems	8	3

List D

BNB003	Professional Practice in Asia/Pacific	8	3
MEB800	Special Topic 4	8	3
MEB810	Industrial Noise and Vibration	8	3
MEB960	Fluid Systems Design	8	3

■ Bachelor of Engineering (Medical) (ME46)**Location:** Gardens Point campus**Course Duration:** 4 years full-time**Total Credit Points:** 394**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Professor William Scott**Professional Recognition**

Preliminary accreditation for the course has been received from the Institution of Engineers, Australia. Full accreditation will be sought when the course has produced its first graduates. If accreditation is granted, graduates will be professionally recognised to practise as either biomedical or mechanical engineers.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEB184	Engineering Mechanics 1	6	3
CSB192	Introduction to Computing	8	3
EEB101	Circuits and Measurements	6	3
LSB131	Anatomy	12	6
MAB103	Introductory Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
MEB190	Engineering in the Medical Environment	6	3
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
CSB491	Unix & C	4	2
EEB209	Electrical Engineering 2M	6	3
LSB231	Physiology	12	6
MAB188	Engineering Mathematics 1B	8	3
MEB111	Dynamics	8	3
MEB133	Materials	6	3
MEB212	Mechanics of Solids	6	3
Year 2, Semester 1			
HMB274	Functional Anatomy	12	4
LSB132	Cell Biology	8	3
MAB487	Engineering Mathematics 2A	8	3
MEB121	Engineering Graphics	6	3
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8	4
Year 2, Semester 2			
HMB272	Biomechanics	12	4
MAB488	Engineering Mathematics 2B	8	3
MEB314	Mechanics 1	8	4
MEB333	Biomaterials	8	3
MEB473	Manufacturing Engineering 1	8	4
MEB484	Bioengineering Design 1	8	3
Year 3, Semester 1			
COB136	Professional Communication	6	3
MAB893	Engineering Mathematics 3	8	3
MEB465	Biofluids	8	3
MEB513	Stress Analysis	8	4
MEB580	Bioengineering Design 2	8	3
	Elective Unit (Select from List A)	8	
Year 3, Semester 2			
EEB271	Basic Electronic Devices	6	3
MEB641	Automation 1	8	4
MEB661	Tribology	8	4
MEB681	Bioengineering Design 3	8	3
PHB504	Instrumentation	8	3
	Elective Unit (Select from List B)	8	
Year 4, Semester 1			
FNB116	Financial Management for Engineers	8	2
HMB610	Clinical Measurement	8	3
MEB490/1	Project	8	3
MEB703	Reliability and Maintenance Optimisation	8	3
PUB210	Occupational Health & Safety 1	8	4
	Elective Unit (Selected from List C)	8	

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

Year 4, Semester 2

HRB111	Industrial Management	8	2
MEB490/2	Project	8	3
MEB672	Total Quality Management	8	3
MEB891	Health Legalisation & Medical Environment	8	3
PUB211	Occupational Health & Safety 2	8	4
	Elective Unit (Selected from List D)	8	

Elective Lists

LIST A

HMB614	Biophysical Bases of Movement Rehabilitation	8	3
HMB615	Exercise Physiology	8	3
MEB334	Materials 2	8	4

LIST B

HMB616	Psychology of Rehabilitation	8	3
HMB617	Workplace Health	8	3
MEB680	Advanced Mechanical Design	8	3

LIST C

HMB611	Human Performance	8	3
MEB572	Manufacturing Engineering 2	8	4
MEB780	Rehabilitation Equipment Design & Evaluation	8	3

LIST D

MEB450	Air Conditioning	8	3
MEB740	Maintenance Management & Technology	8	3
MEB892	Robotics in Health Care	8	3

■ Bachelor of Surveying (PS47)¹⁰

Location: Gardens Point campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Brian Hannigan

Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirements

Students must obtain at least 90 days of industrial employment/practice in a surveying environment approved by the Course Coordinator.

Students must, not later than the fourth week of the semester immediately following each period of industrial employment/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office or Faculty Industrial Employment Officer in HE1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these

¹⁰ See course requirements and notes relating to undergraduate courses.

details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board. Students should not formally enrol in industrial employment/practice.

Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

Specialisations

There are two specialisations built into the course - Surveying and Mapping. Most units are common to both specialisations. However in specific semesters, specialised units are to be undertaken in either surveying or mapping and these are highlighted in the course structure.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
CSB192	Introduction to Computing	8	3
ESB229	Geology in the Built Environment	6	2
MAB103	Introductory Engineering Mathematics ¹²	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PHB134	Engineering Physics 1B	8	3
PSB315	Land Administration 1	6	3
PSB325	Land Surveying 1	8	3
Year 1, Semester 2			
CSB291	Introduction to FORTRAN	4	2
MAB188	Engineering Mathematics 1B	8	3
PHB172	Physics for Surveyors	6	3
PSB306	Cartography 1	8	3
PSB316	Land Administration 2	8	3
PSB323	Land Studies 1	6	3
PSB326	Land Surveying 2	8	3
Year 2, Semester 1			
MAB494	Survey Mathematics 1	6	3
MAB893	Engineering Mathematics 3	6	3
MEB221	Engineering Science 1	6	3
PSB054	Environmental Science	4	2
PSB307	Cartography 2	8	3
PSB319	Land Administration 5 ¹⁸	6	3
PSB327	Land Surveying 3 ¹⁹	10	3
PSB342	Spatial Information Science 1	8	3
PSB902	Urban Planning 1 ¹⁸	4	2
Year 2, Semester 2			
CEB364	Engineering Science 2	6	3
MAB496	Survey Mathematics 2	6	3
PSB303	Analysis of Spatial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB317	Land Administration 3	8	3
PSB328	Land Surveying 4	8	3
PSB334	Photogrammetry 1	6	3

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

¹⁸ This unit is to be undertaken by students in the Mapping strand only.

¹⁹ This unit is to be undertaken by students in the Surveying strand only.

Year 3, Semester 1

MAB795	Survey Mathematics 3	6	3
PSB304	Analysis of Spatial Measurement 2	6	3
PSB309	Cartography 4	8	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB335	Photogrammetry 2	8	3
PSB346	Spheroidal Computations	6	3

Year 3, Semester 2

CEB464	Engineering Science 3	6	3
PSB310	Geodesy 1	6	3
PSB318	Land Administration 4	6	3
PSB320	Land Development Practice 1	8	3
PSB324	Land Studies 2	6	3
PSB336	Photogrammetry 3	8	3

Select one of the following options:

Option 1 – Surveying strand

PSB330	Land Surveying 6	8	3
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Option 2 – Mapping strand

PSB343	Spatial Information Science 2	8	3
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Year 4, Semester 1

PSB339/1	Project	8	3
CEB564	Engineering Science 4	6	3
PSB321	Land Development Practice 2	8	3
PSB331	Land Surveying 7	8	3
PSB340	Remote Sensing 1	6	3

Select one of the following options:

Option 1 – Surveying strand

Elective Units	12	
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Option 2 – Mapping Strand

PSB344	Spatial Information Science 3	8	3
	Elective Units	4	

Year 4, Semester 2

PSB322	Land Development Practice 3	16	6
PSB338	Professional Practice	6	3
PSB339/2	Project	8	3
	Elective Units	10	

Select one of the following options:

Option 1 – Surveying strand

PSB332	Land Surveying 8	8	3
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Option 2 – Mapping Strand

PSB345	Spatial Information Science 4	8	3
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ELECTIVE UNITS**Year 4, Semester 1**

CNB367	Real Estate Accounting 1	9	3
CNB465	Property Investment Analysis 1	8	3
CNB565	Land Management	8	3
CNB567	Real Estate Market Analysis	4	2
CNB665	Property Management 1	9	3
PSB018	Land Use Generation	4	2
PSB021	Conservation Theory	2	1
PSB319	Land Administration 5	6	3
PSB337	Photogrammetry 4	6	3
PSB902	Urban Planning 1	4	2

Year 4, Semester 2

CNB362	Property Agency	8	3
CNB368	Real Estate Accounting 2	8	3
CNB568	Real Estate Practice	5	2.5

CNB666	Property Management 2	8	3
PSB020	Land Use Policies	4	2
PSB032	Issues & Ethics	2	1
PSB059	Population & Urban Studies	6	2
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB311	Geodesy 2	6	3
PSB341	Remote Sensing 2	8	3
PSB347	Topics in Engineering Surveying	6	3

■ **Bachelor of Technology (Civil) (CE31)** **Conversion Program**

Location: Gardens Point campus

Course Duration: 1.5 years full-time or 3 years part-time

Total Credit Points: 144

Course Coordinator: Dr Frank Bullen

Entry Requirements:

Applicants require an Associate Diploma in Civil Engineering from a university, TAFE college or equivalent. Holders of Associate Diplomas from places other than QUT must have undertaken certain prerequisite subjects but may also seek exemptions.

Full-time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEB221	Engineering Investigation, Analysis and Reporting	8	4
CEB224	Computer Applications	8	3
CEB225	Civil Projects A ²	8	4
CEB293	Engineering Science	8	4
CEB305	Construction Planning & Economics	8	3
CEB307	Construction Practice ²	8	3.5
CHB002	Introduction to Engineering Chemistry ²⁰	(2)	(1)
MAB103	Introductory Engineering Mathematics ²⁰	(8)	(3)

Year 1, Semester 2

CEB202	Concrete Structures 1 ²	8	3.5
CEB241	Soil Mechanics 2 ²	8	3
CEB261	Hydraulic Engineering 1	8	3.5
CEB270	Environmental Science	8	3
MAB185	Introduction to Statistics	8	3
MAB187	Engineering Mathematics 1A	8	3

Year 2, Semester 1

CEB226	Civil Projects B ²	8	4
CEB227	Civil Investigation Project ²	8	4
CEB370	Public Health Engineering	8	3.5
CEB372	Environmental Technology	8	3
MAB188	Engineering Mathematics 1B	8	3
	Elective Unit	8	

Part-time Course Structure

Year 1, Semester 1

CEB221	Engineering Investigation, Analysis and Reporting	8	4
CEB293	Engineering Science	8	4

² Safety boots must be worn for practical exercises and field trips.

²⁰ This unit must be taken by students not obtaining at least a SA in Grade 12 Chemistry and Mathematics or their equivalents.

CEB307	Construction Practice ²	8	3.5
CHB002	Introduction to Engineering Chemistry ²⁰	(2)	(1)
MAB103	Introductory Engineering Mathematics ²⁰	(8)	(3)
Year 1, Semester 2			
CEB261	Hydraulic Engineering 1	8	3.5
CEB270	Environmental Science	8	3
MAB187	Engineering Mathematics 1A	8	3
Year 2, Semester 1			
CEB225	Civil Projects A ²	8	4
CEB372	Environmental Technology	8	3
MAB188	Engineering Mathematics 1B	8	3
Year 2, Semester 2			
CEB202	Concrete Structures 1 ²	8	3.5
CEB241	Soil Mechanics 2 ²	8	3
MAB185	Introduction to Statistics	8	3
Year 3, Semester 1			
CEB224	Computer Applications	8	3
CEB226	Civil Projects B ²	8	4
CEB370	Public Health Engineering	8	3.5
Year 3, Semester 2			
CEB227	Civil Investigation Project ²	8	4
CEB305	Construction Planning & Economics ²	8	3
	Elective Unit	8	
ELECTIVE UNITS			
CEB313	Traffic Engineering	8	3
CEB371	Water & Wastewater Systems	8	3
CEB543	Environmental Geotechnology	8	3
	OR		
	Any other approved subject from the BE course		

Bachelor of Technology (Mechanical) (ME35) Conversion Program

Location: Gardens Point campus

Course Duration: 3 year part-time

Total Credit Points: 151 (minimum)

Course Coordinator: Dr Andy Tan

Entry Requirements

Applicants require an Associate Diploma in Mechanical or Manufacturing Engineering or a Bachelor of Science degree in a relevant discipline. Applicants holding an Associate Diploma in other engineering disciplines will also be considered. Such candidates may be required to complete additional units.

Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB103	Introductory Engineering Mathematics ¹²	8	3

² Safety boots must be worn for practical exercises and field trips.

¹² MAB103 Introductory Mathematics is to be taken only by those students not obtaining a HA or better in Maths B and a SA or better in Maths C or its equivalent.

²⁰ This unit must be taken by students not obtaining at least a SA in Grade 12 Chemistry and Mathematics or their equivalents.

MAB185	Introduction to Statistics	8	3
MEB334	Materials 2	8	4
Year 1, Semester 2			
MAB187	Engineering Mathematics 1A	8	3
MEB111	Dynamics	8	3
MEB455	Thermodynamics 2	8	4
Year 2, Semester 1			
HRB148	Managing People at Work	8	2
MAB188	Engineering Mathematics 1B	8	3
MEB314	Mechanics 1	8	4
Year 2, Semester 2			
MEB465	Fluids 2	8	4
MEB670	Industrial Engineering 1	6	3
MEB773	Design for Manufacturing 1	7	3
Year 3, Semester 1			
MEB463	Tribology	6	3
MEB501/1	Project	8	3
MEB572	Manufacturing Engineering 2	8	4
	Elective Unit (Select from List A)		3
Year 3, Semester 2			
HRB149	Human Resources & Industrial Relations	8	2
MEB501/2	Project	8	3
MEB740	Maintenance Management & Technology	8	3
	Elective Unit (Select from List B)		3
Elective Lists			
List A			
MEB450	Air Conditioning	7	3
MEB660	Fluid Power	6	3
MEB675	Plastics Technology	7	3
List B			
MEB550	Heat Transfer	6	3
MEB612	Mechanical Measurements	8	3
MEB774	Operations Management	7	3

■ Associate Diploma in Civil Engineering (CE21)¹⁰

Course Discontinued: No further intakes. Years 2 to 4 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Frank Bullen

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

¹⁰ See course requirements and notes relating to undergraduate courses.

Course Requirements/Notes

There are two majors in the course: a General Major and a Water and Wastewater Process Operation Major. The General Major is offered both full-time and part-time. The Water and Wastewater Process Operation Major will be offered in the part-time mode, subject to quotas.

The first four semesters of the part-time course are common to the General and Water and Wastewater Process Operation Majors.

Generally a full-time student will gain 24 credit points by successfully completing eight practical experience units designated by the suffix 'A' after the unit name, and a part-time student will gain 24 credit points for successfully completing 120 weeks of approved industrial employment, that is 15 weeks for each of the 8 industrial employment units, before being eligible for the Associate Diploma award. However a combination of practical experience units and industrial employment totalling 24 credit points will be accepted. Industrial employment units 4 to 8 must involve the student in civil engineering work. Forms for obtaining credit for industrial employment are available from the Faculty office. For the employment to be recognised, students must enrol in the industrial employment unit(s) in the semester in which they expect to submit their completed form for obtaining credit. The form must be completed by both the student and the employer. Details of acceptable industrial employment can be obtained from the Course Coordinator.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
GENERAL MAJOR (GEN)			
Year 2, Semester 1			
CET306	Field Practice 1A ²	3	2
CET387	Civil Engineering Drafting A	3	2
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET756	Building Construction Practice	7	3
CET775	Public Health Engineering	7	3
	List B1 Elective Unit	7	
	List B2 Elective Unit	7	
Year 2, Semester 2			
CET405	Field Practice 2A ²	3	2
CET495	Project A ²	3	2
CET704	Civil Construction Practice	7	3
CET708	Specifications & Estimates	7	3
	Two List B1 Elective Units	14	
	Two List B2 Elective Units	14	

Part-Time Course Structure

GENERAL MAJOR (GEN)

Year 3, Semester 1

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3

Year 3, Semester 2

CET708	Specifications & Estimates	7	3
CET756	Building Construction Practice	7	3
	List B1 Elective Unit	7	

Year 4, Semester 1

CET704	Civil Construction Practice	7	3
	List B1 Elective Unit	7	
	List B2 Elective Unit	7	

² Safety boots must be worn for practical exercises and field trips.

Year 4, Semester 2

List B1 Elective Unit	7	
Two List B2 Elective Units	14	

WATER AND WASTEWATER PROCESS OPERATION MAJOR

Year 3, Semester 1

Select one of the following options:

Option 1

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3

Option 2

CET598	Project 2	21	9
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Year 3, Semester 2

CET776	Equipment Operation & Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement & Monitoring 1	7	3

Year 4, Semester 1

CET606	Construction Management	7	3
CET777	Process Operation & Control 1	7	3
CHA744	Process Measurement & Monitoring 2	7	3

Year 4, Semester 2

CET876	Plant Operation & Maintenance	7	3
CET877	Process Operation & Control 2	7	3
CHA844	Trade Waste Control	7	3

Industrial Employment Units (Part-Time only)

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

List A – All Elective Units in the Course

CET420	Civil Systems 2	7	3
CET606	Construction Management (Evening)	7	3
CET655	Concrete & Steel Design (Day & Evening)	7	3
CET703	Civil Engineering Practice 1	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET797	Project 1 ²	7	3
CET802	Civil Engineering Practice 2	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
CET888	Structural Drawing & Design (Day)	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
HRX111	Safety & Industrial Relations (Evening)	7	2
MET140	Engineering Materials 1	8	3

List B1 Elective Units

FIRST SEMESTER

CET606	Construction Management (Evening)	7	3
CET655	Concrete & Steel Design (Day)	7	3
CET887	Computer Aided Drafting (Evening)	7	3
EST219	Engineering Geology	7	3

² Safety boots must be worn for practical exercises and field trips.

SECOND SEMESTER

CET655	Concrete & Steel Design (Evening)	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
HRX111	Safety & Industrial Relations (Evening)	7	2

List B2 Elective Units

FIRST SEMESTER

CET703	Civil Engineering Practice 1	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1 ²	7	3
CET797	Project 1 ²	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
MET140	Engineering Materials 1	8	3

SECOND SEMESTER

CET420	Civil Systems 2	7	3
CET797	Project 1 ²	7	3
CET802	Civil Engineering Practice 2	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET888	Structural Drawing & Design (Day)	7	3

Up to 21 credit points from other modes or strands of this course or from other QUT courses may be approved by the Course Coordinator as alternatives to the listed elective units. The number of elective units available depends on a sufficient number of students being enrolled.

Degree level units may be selected as electives with the approval of the Course Coordinator.

Students not following the normal course progression as listed must contact the Course Coordinator for re-enrolment advice.

■ Associate Diploma in Electrical Engineering (EE22)¹⁰

Course Discontinued: No further intakes. Years 3 and 4 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 1 year full-time plus 2 years part-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jim Lyall

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Course options

Students are required to select two of the following four modules as their majors – Computer Systems, Industrial Systems, Power or Telecommunications.

² Safety boots must be worn for practical exercises and field trips.

¹⁰ See course requirements and notes relating to undergraduate courses.

Note: 1995 is the final year any units in this course will be available. Students who will not complete the course in 1995 should contact the Course Coordinator.

		Unit No.	Credit Points	Contact Hrs/Wk
COMPUTER SYSTEMS UNITS				
EET791	Computer Programming 2	(c)	7	3
EET891	Advanced Computing Techniques	(d)	7	3
INDUSTRIAL SYSTEMS UNITS				
EET720	Modern Control Technology	(c)	7	3
EET870	Industrial Electronics	(d)	7	3
POWER UNITS				
EET753	Testing & Commissioning Techniques	(c)	7	3
EET840	Substations & Protection Systems	(d)	7	3
TELECOMMUNICATIONS UNITS				
EET760	Communications Engineering 2	(c)	7	3
EET860	Communications Technology	(d)	7	3

Part-Time Course Structure

Normally, part-time students must engage in at least 120 weeks of approved employment, ie. 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma award. For the employment to be recognised, students must enrol in the industrial employment units, then submit an industrial experience record form, which has been completed by both the student and the employer. However, a combination of practical experience units and industrial experience totalling 24 credit points will be accepted. Forms are available from the Faculty office.

		Unit No.	Credit Points	Contact Hrs/Wk
Year 4, Semester 1				
	Major 1 Unit	(c)	7	3
	Major 2 Unit	(c)	7	3
	Elective Unit		7	3
Year 4, Semester 2				
EET880	Design		7	3
	Major 1 Unit	(d)	7	3
	Major 2 Unit	(d)	7	3

Industrial Employment Units

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

Notes

- Major 1 and Major 2 units refer to units taken from two of the four modules, viz., Computer Systems, Industrial Systems, Power or Telecommunications; (a), (b), (c) and (d) refer to units within each module.
- For the elective, a unit may be chosen from any other module which runs in the same semester. Degree level units may be selected as elective units with the approval of the Course Coordinator.

■ Associate Diploma in Mechanical Engineering (ME23)¹⁰

Course Discontinued: No further intakes. Year 4 is offered to continuing part-time students only.

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andy Tan

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 4, Semester 1			
MET572	Production Planning & Control	6	3
MET933	Industrial Tribology	6	3
	Elective Unit	6	3
Year 4, Semester 2			
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	Elective Unit	7	3

Elective Units

FIRST SEMESTER

EEB101	Circuits & Measurements (degree level)	7	3
MAB187	Engineering Mathematics 1A (degree level)	6	3
MET511	Noise, Stress & Vibration Practice	6	3
MET733	Industrial Metallurgy	6	3
MET782	Jig & Tool Design	6	3
MET850	Energy Management	6	3
PHB132	Engineering Physics 1A (degree level)	6	3

SECOND SEMESTER

MAA251	Statistics & Data Processing	8	3
MAB188	Engineering Mathematics 1B (degree level)	6	3
MEB111	Dynamics (degree level)	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET680	Machine Elements 2	7	3
MET960	Fluid Power	7	3

Industrial Experience

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

¹⁰ See course requirements and notes relating to undergraduate courses.

Notes

1. From time to time a series of special elective units may be made available to meet industrial demand, provided both student numbers and staff resources can justify their inclusion in the course. Not all of the elective units listed will be available each semester.
2. Degree level units may be selected as elective units with the approval of the Head of School.
3. Generally, a student who has been full-time to this stage of the course will gain or have gained 24 credit points by successfully completing six practical experience units designated by the suffix 'A' after the unit name, while a part-time student will gain 24 credit points for successfully completing 120 weeks of industrial employment, that is 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma Award. However, a combination of practical experience units and industrial employment totalling 24 credit points will be accepted.
4. Students completing industrial employment units must enrol in the units in the semester in which they expect to submit an industrial experience record form for obtaining credit. The form must be completed by both the student and the employer. Forms are available from the Faculty office.

FACULTY OF BUSINESS

BUSINESS

Courses

■ Master of Business in the fields of Accounting, Managerial Accounting and Finance, and Accounting Legal Studies (BS87)	313
■ Master of Business in the fields of Communication Management, Journalism, and Media Studies (BS84)	315
■ Master of Business in the fields of Economics, Human Resource Management, Industrial Relations, International Business, Management, and Public Policy (BS83)	317
■ Master of Business in the fields of Marketing Management and Marketing Science (BS85)	323
■ Master of Business Administration (BS81)	324
■ Graduate Diploma in Advanced Accounting (BS70)	328
■ Graduate Diploma in Business (Administration) (BS78)	331
■ Graduate Diploma in Business Administration (BS71)	335
■ Graduate Diploma in Communication (BS72)	335
■ Graduate Diploma in Industrial Relations (BS74)	339
■ Graduate Certificate in Management (BS30)	340
■ Bachelor of Business (Honours) in the fields of Accountancy, Managerial Accounting and Finance, and Accounting Legal Studies (BS60)	341
■ Bachelor of Business (Honours) in the fields of Advertising, Film and Television Production, Journalism, Marketing, Organisational Communication, and Public Relations (BS61)	341
■ Bachelor of Business (Honours) in the fields of Economics, Human Resource Management, Industrial Relations, International Business, Management, and Public Policy (BS62)	343
■ Bachelor of Business (BS50)	347
□ Accountancy Major	348
□ Advertising Major	353
□ Banking and Finance Major	355
□ Economics Major	357
□ Film and Television Production Major	359
□ Human Resource Management Major	361
□ Industrial Relations Major	363
□ International Business Major	365
□ Journalism Major	369
□ Management Major	370
□ Marketing Major	373
□ Organisational Communication Major	375
□ Public Sector Management Major	377
□ Public Relations Major	379
□ Secondary Majors	380
■ Associate Diploma in Business (Industrial Relations) (BS10)	387

FACULTY OF BUSINESS

Course Structures

■ Master of Business (BS87)

In the fields of: Accounting, Managerial Accounting and Finance, and Accounting Legal Studies

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Ian Nott

Entry Requirements

Applicants for admission to candidature for a degree of master:

- (i) (a) shall hold a Bachelor of Business – Accountancy or Bachelor of Business – Banking and Finance degree from QUT and shall have achieved a level of attainment in an appropriate discipline or disciplines considered by the Academic Board of the Faculty of Business to be acceptable for the purpose of proceeding to a degree of master, or
(b) shall hold, from another tertiary institution or from QUT, qualifications approved by the Accounting Board of Studies, on the recommendation of the Head of School responsible for the specialisation which the applicant seeks to study, as equivalent to the requirements set out in (i) (a) above, and
- (ii) shall normally have had at least two years of appropriate work experience.

This course provides advanced level studies in Accounting, Finance and Legal Studies and as such assumes a knowledge of Australian business law, company law, taxation law, and accounting and auditing standards. Students may be required to take one or more undergraduate units in order to make good any deficiency in their qualifications to enter the course.

Course Requirements

Students are required to complete satisfactorily 14 units and a dissertation/research project equivalent to two units.

In selecting units, students may choose from three areas of specialisation – Accounting, Managerial Accounting and Finance, and Accounting Legal Studies (see the Schedule of Postgraduate Units). The 14 units must include AYN102 Accounting Research or BSN141 Applied Research Methods, plus at least 11 units from the Core Options listed in the Schedule of Postgraduate units. A maximum of two general electives may be selected from any postgraduate units offered within QUT or elsewhere, subject to approval by the Course Coordinator.

Dissertation/Research Project

Students are required to do either AYN102 Accounting Research or BSN141 Applied Research Project as prerequisite to enrolment in BSN100 Dissertation or BSN142 Research Project respectively. The dissertation/research project should reflect the application of theoretical analysis or problem-solving in Accounting, Managerial Accounting or Finance,

or Accounting Legal Studies. Students are advised to seek a topic, and to approach a supervisor, early in their program.

Program

Approximate formal hours in all units of course work will be three hours per week (Credit Points = 12). The dissertation/research project will be regarded as the equivalent of six formal hours per week (Credit Points = 24).

SCHEDULE OF POSTGRADUATE UNITS

		Credit Points	Contact Hrs/Wk
Core			
Select one of the following Options:			
<i>Option 1</i>			
AYN102	Accounting Research	12	3
BSN100	Dissertation	24	
<i>Option 2</i>			
BSN141	Applied Research Methods	12	3
BSN142	Research Project	24	
Core Option			
ACCOUNTING			
AYN104	Audit Sampling	12	3
AYN106	Auditing Honours	12	3
AYN107	Auditing Standards & Practice	12	3
AYN109	Computer Auditing	12	3
AYN111	External Reporting Issues	12	3
AYN115	Financial Accounting Honours	12	3
AYN117	Financial Reporting	12	3
AYN118	Internal Auditing	12	3
AYN119	International Accounting	12	3
AYN301	Auditing (PY)	12	3
AYN302	Special Topic – Public Accounting	12	3
AYN303	Accounting Information Systems (PY)	12	3
Select one of the following units:			
AYN103	Advanced Company Accounting	12	3
AYN300	Accounting 1 (PY)	12	3
MANAGERIAL ACCOUNTING/FINANCE			
FNN100	Advanced Capital Budgeting	12	3
FNN101	Finance Honours	12	3
FNN103	Financial Modelling	12	3
FNN104	Financial Risk Management	12	3
FNN105	International Finance	12	3
FNN106	Managerial Accounting Honours	12	3
FNN110	Managerial Accounting Issues A	12	3
FNN112	Special Topic – Managerial Accounting & Finance	12	3
FNN300	Accounting 2 (PY)	12	3
Select one of the following units:			
FNN111	Managerial Accounting Issues B	12	3
FNN301	Management Accounting (PY)	12	3
ACCOUNTING LEGAL STUDIES			
ALN101	Advanced Tax Planning	12	3
ALN102	Advanced Taxation	12	3
ALN104	Commercial Law Honours	12	3
ALN105	Indirect Taxation	12	3
ALN106	International Taxation	12	3
ALN110	Taxation Policy Honours	12	3
ALN301	Taxation 1B (PY)	12	3
ALN302	Taxation 2 (PY)	12	3
ALN305	Taxation 1A (PY)	12	3

Select one of the following units:

ALN107	Liquidations & Receiverships	12	3
ALN300	Insolvency & Reconstruction (PY)	12	3

Professional Year (PY) units can be taken only by students enrolled for the Professional Year with the Institute of Chartered Accountants in Australia. Students not undertaking the PY may enrol in the equivalent postgraduate units, but should note that abnormal timetables apply. Credit cannot be gained for both a PY unit and its equivalent unit.

Further information regarding postgraduate Accountancy courses is provided in the 1995 Guide to Postgraduate Studies in Accountancy.

■ Master of Business (BS84)

In the fields of: Communication Management, Journalism, and Media Studies.

Note: This course was subject to review at time of publication. For current information on course structure and unit synopses, check with the coordinator for the relevant field of study.

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Philip Crowe

Field of Study Coordinators:

Communication Management – Dr Philip Crowe

Journalism – Associate Professor Len Granato

Media Studies – Dr Graham Bruce

Entry Requirements

Applicants for admission to candidature for the Master of Communication degree shall hold a Bachelor of Business degree with a Communication major from QUT, or a comparable degree from another tertiary institution, having achieved a level of attainment considered by the Faculty of Business Academic Board as acceptable for progression to a degree of master.

The Master of Communication normally requires two years full-time study or four years part-time study. However, graduates possessing a Bachelor of Business (Honours) in a relevant discipline area from the communication field of study or an approved equivalent Honours qualification will receive credit for the first year full-time or the first two years part-time of the normal masters program as set out below.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
ALL FIELDS			
Year 1, Semester 1			
BSP102	Communication Seminar	12	3
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
Select one of the following units:			
COP108	Communication Technologies & Society	12	3
MJP102	Communication Policy Environment	12	3
MJP105	Theories of Journalism	12	3

Year 1, Semester 2

BSP100	Dissertation	48	
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COMMUNICATION MANAGEMENT**Year 2, Semester 1**

BSP101	Advanced Communication Seminar	12	3
CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3
CON103	Advanced Communication Management	12	3

Year 2, Semester 2

BSN116	Thesis	48	
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JOURNALISM**Year 2, Semester 1**

BSP101	Advanced Communication Seminar	12	3
MJN105	Comparative Journalism	12	3
MJN106	Journalistic Freedom & Responsibility	12	3
MJP102	Communication Policy Environment	12	3

Year 2, Semester 2

BSN116	Thesis	48	
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MEDIA STUDIES**Year 2, Semester 1**

BSP101	Advanced Communication Seminar	12	3
MJN100	Advanced Media Theory	12	3
MJN101	Advanced Media Analysis	12	3
MJN103	Australian Media Contexts	12	3

Year 2, Semester 2

BSN116	Thesis	48	
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Part-Time Course Structure**ALL FIELDS****Year 1, Semester 1**

COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3

Year 1, Semester 2

BSP102	Communication Seminar	12	3
BSP104	Dissertation Part 1	12	

Year 2, Semester 1

BSP105	Dissertation Part 2	12	
Select one of the following units:			
COP108	Communication Technologies & Society	12	3
MJP102	Communication Policy Environment	12	3
MJP105	Theories of Journalism	12	3

Year 2, Semester 2

BSP106	Dissertation Part 3	24	
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COMMUNICATION MANAGEMENT**Year 3, Semester 1**

CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3

Year 3, Semester 2

BSN803	Thesis Part 1	12	
BSP101	Advanced Communication Seminar	12	3

Year 4, Semester 1

BSN804	Thesis Part 2	12	
CON103	Advanced Communication Management	12	3

Year 4, Semester 2

BSN805 Thesis Part 3 24

JOURNALISM**Year 3, Semester 1**

MJN105 Comparative Journalism 12 3

MJN106 Journalistic Freedom & Responsibility 12 3

Year 3, Semester 2

BSN803 Thesis Part 1 12

BSP101 Advanced Communication Seminar 12 3

Year 4, Semester 1

BSN804 Thesis Part 2 12

MJP102 Communication Policy Environment 12 3

Year 4, Semester 2

BSN805 Thesis Part 3 24

MEDIA STUDIES**Year 3, Semester 1**

MJN100 Advanced Media Theory 12 3

Select one of the following units:

MJN101 Advanced Media Analysis 12 3

MJN103 Australian Media Contexts 12 3

Year 3, Semester 2

BSN803 Thesis Part 1 12

BSP101 Advanced Communication Seminar 12 3

Year 4, Semester 1

BSN804 Thesis Part 2 12

Select one of the following units:

MJN101 Advanced Media Analysis 12 3

MJN103 Australian Media Contexts 12 3

Year 4, Semester 2

BSN805 Thesis Part 3 24

Note: The required dissertation length is 12,000 to 15,000 words. The required thesis length is 30,000 words.

■ Master of Business (BS83)

In the fields of: Economics, Human Resource Management, Industrial Relations, International Business, Management, and Public Policy.

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Barry Smith

Entry Requirements

Applicants for admission to candidature for the Master of Business shall:

- (i) hold an approved Business or other degree which includes a major in the area of intended masters level study, and a grade point average of 5 or better in units studied in the three years of undergraduate study; greater weight may be given to performance in advanced level units,

- (ii) should preferably have appropriate work experience, which might include voluntary work, employment in the home, and part-time work.

Alternatively, candidates who produce evidence of other qualifications and/or experience which is considered by the Dean to qualify the candidate for admission may be accepted.

Candidates who have completed an appropriate BBus(Hons) or equivalent program may be admitted to the MBus with advanced standing such that they will normally be required to complete a further 96 credit points of thesis work.

Course Requirements

Students must complete three prescribed units (36 credit points), one elective unit (12 credit points), and a thesis (144 credit points).

ECONOMICS

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN108	Developments in Microeconomic Theories ¹	12	3
EPN111	Contemporary Macroeconomic Theories ¹	12	3
Year 1, Semester 2			
BSN144			
/2/3/4	Thesis	36	
	Elective Unit ¹	12	
Year 2, Semester 1			
BSN145			
/1/2/3/4	Thesis	48	
Year 2, Semester 2			
BSN145			
/5/6/7/8	Thesis	48	
Part-Time Course Structure			
Year 1, Semester 1			
BSB400	Research Methodology	12	3
EPN111	Contemporary Macroeconomic Theories ¹	12	3
Year 1, Semester 2			
EPN108	Developments in Microeconomic Theories ¹	12	3
	Elective Unit ¹	12	3
Year 2, Semester 1			
BSN144/1/2	Thesis	24	
Year 2, Semester 2			
BSN144/3/4	Thesis	24	
Year 3, Semester 1			
BSN145/1/2	Thesis	24	
Year 3, Semester 2			
BSN145/3/4	Thesis	24	
Year 4, Semester 1			
BSN145/5/6	Thesis	24	
Year 4, Semester 2			
BSN145/7/8	Thesis	24	

¹ Semesters of these units may be changed.

HUMAN RESOURCE MANAGEMENT

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN115	Contemporary Issues in HRM ¹	12	3
HRN116	HRM Cases ¹	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit ¹	12	

Year 2, Semester 1

BSN145			
/1/2/3/4	Thesis	48	

Year 2, Semester 2

BSN145			
/5/6/7/8	Thesis	48	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
HRN115	Contemporary Issues in HRM	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN116	HRM Cases ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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Year 3, Semester 1

BSN145/1/2	Thesis	24	
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Year 3, Semester 2

BSN145/3/4	Thesis	24	
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Year 4, Semester 1

BSN145/5/6	Thesis	24	
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Year 4, Semester 2

BSN145/7/8	Thesis	24	
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INDUSTRIAL RELATIONS

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN101	Advanced Theory & Comparativism ¹	12	3
HRN117	Industrial Relations & Work Organisation ¹	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit ¹	12	

¹ Semesters of these units may be changed.

Year 2, Semester 1

BSN145			
/1/2/3/4	Thesis	48	

Year 2, Semester 2

BSN145			
/5/6/7/8	Thesis	48	

Part-Time Course Structure**Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN101	Advanced Theory & Comparativism ¹	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN117	Industrial Relations & Work Organisation ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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Year 3, Semester 1

BSN145/1/2	Thesis	24	
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Year 3, Semester 2

BSN145/3/4	Thesis	24	
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Year 4, Semester 1

BSN145/5/6	Thesis	24	
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Year 4, Semester 2

BSN145/7/8	Thesis	24	
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INTERNATIONAL BUSINESS**Full-Time Course Structure****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
	Elective Unit ¹	12	
EPN110	Regional Study ¹	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
EPN109	International Business Policy & Competitive Strategies ¹	12	3

Year 2, Semester 1

BSN145			
/1/2/3/4	Thesis	48	

Year 2, Semester 2

BSN145			
/5/6/7/8	Thesis	48	

Part-Time Course Structure**Year 1, Semester 1**

BSB400	Research Methodology	12	3
EPN110	Regional Study ¹	12	3

¹ Semesters of these units may be changed.

Year 1, Semester 2

EPN109	International Business Policy & Competitive Strategies ¹	12	3
	Elective Unit ¹	12	

Year 2, Semester 1

BSN144/1/2	Thesis	24	
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Year 2, Semester 2

BSN144/3/4	Thesis	24	
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Year 3, Semester 1

BSN145/1/2	Thesis	24	
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Year 3, Semester 2

BSN145/3/4	Thesis	24	
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Year 4, Semester 1

BSN145/5/6	Thesis	24	
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Year 4, Semester 2

BSN145/7/8	Thesis	24	
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MANAGEMENT**Full-Time Course Structure****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN118	Advanced Readings in Management ¹	12	3
HRN119	Current Issues in Management ¹	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit ¹	12	

Year 2, Semester 1

BSN145			
/1/2/3/4	Thesis	48	

Year 2, Semester 2

BSN145			
/5/6/7/8	Thesis	48	

Part-Time Course Structure**Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN118	Advanced Readings in Management ¹	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN119	Current Issues in Management ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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Year 3, Semester 1

BSN145/1/2	Thesis	24	
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¹ Semesters of these units may be changed.

Year 3, Semester 2	
BSN145/3/4 Thesis	24
Year 4, Semester 1	
BSN145/5/6 Thesis	24
Year 4, Semester 2	
BSN145/7/8 Thesis	24

PUBLIC POLICY

Full-Time Course Structure

Year 1, Semester 1		
BSB400 Research Methodology	12	3
BSN144/1 Thesis	12	
EPN104 Policy Analysis	12	3
EPN106 Program Management	12	3
Year 1, Semester 2		
BSN144		
2/3/4 Thesis	36	
Elective Unit	12	
Year 2, Semester 1		
BSN145		
1/1/2/3/4 Thesis	48	
Year 2, Semester 2		
BSN145		
1/5/6/7/8 Thesis	48	

Part-Time Course Structure

Year 1, Semester 1		
BSB400 Research Methodology	12	3
EPN104 Policy Analysis ¹	12	3
Year 1, Semester 2		
BSN144/1 Thesis	12	
EPN106 Program Management ¹	12	3
Year 2, Semester 1		
BSN144/2 Thesis	12	
Elective Unit ¹	12	
Year 2, Semester 2		
BSN144/3/4 Thesis	24	
Year 3, Semester 1		
BSN145/1/2 Thesis	24	
Year 3, Semester 2		
BSN145/3/4 Thesis	24	
Year 4, Semester 1		
BSN145/5/6 Thesis	24	
Year 4, Semester 2		
BSN145/7/8 Thesis	24	

Note: The thesis is a substantial written report, normally containing up to 60,000 words of examinable material.

¹ Semesters of these units may be changed.

■ Master of Business (BS85)

In the fields of: Marketing Management and Marketing Science.

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Chad Perry

Entry Requirements

Applicants for admission to candidature for the Master of Business (Marketing) shall hold an approved Business or other degree which includes a relevant major in the area of intended masters level study.

Alternatively, candidates who produce evidence of other qualifications and/or experience which is considered by the Dean to qualify the candidate for admission may be accepted. These students should check with the Course Coordinator for particular units which they may have to take.

The Master of Business (Marketing) normally requires two years of full-time study or four years of part-time study. However, graduates possessing a Bachelor of Business (Honours) in a relevant discipline area from the marketing field of study or an approved equivalent Honours qualification will receive credit for the first year full-time or the first two years part-time of the normal Masters program.

Special Course Requirements

The course requires completion of 192 credit points, comprising coursework (48 credit points) and a thesis (144 credit points) of approximately 60,000 words.

Subject to the approval of the Course Coordinator and the other institutions concerned, students may be permitted to take some units chosen from other institutions' masters-level programs.

Note: Students would normally undertake Thesis and Elective Units in one of the following fields: Marketing Management, Marketing Science, Advertising, Public Relations, and Arts Administration.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MKN100	Seminars in Marketing Theory & Research Methods	12	3
	Elective Unit	12	
	Elective Unit	12	
MKN112/1	Thesis	12	
Year 1, Semester 2			
MKN112			
/2/3/4	Thesis	36	
	Elective Unit	12	
Year 2, Semester 1			
MKN113			
/1/2/3/4	Thesis	48	
Year 2, Semester 2			
MKN113			
/5/6/7/8	Thesis	48	

Part-Time Course Structure

Year 1, Semester 1

MKN100	Seminars in Marketing Theory & Research Methods	12	3
	Elective Unit	12	

Year 1, Semester 2

	Elective Unit	12	
	Elective Unit	12	

Year 2, Semester 1

MKN112/1/2	Thesis	24	
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Year 2, Semester 2

MKN112/3/4	Thesis	24	
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Year 3, Semester 1

MKN113/1/2	Thesis	24	
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Year 3, Semester 2

MKN113/3/4	Thesis	24	
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Year 4, Semester 1

MKN113/5/6	Thesis	24	
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Year 4, Semester 2

MKN113/7/8	Thesis	24	
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Elective Units

Students must choose three elective units from:

MKN101	Seminars in Business Forecasting	12	3
MKN102	Business Logistics	12	3
MKN103	Seminars in Marketing Modelling	12	3
MKN107	Seminars in Marketing Management	12	3
MKN108	Seminars in Consumer Behaviour	12	3
MKN109	Product Innovation & Development	12	3
MKN110	Seminars in Strategic Marketing	12	3
MKP107	Marketing for Arts Administrators	12	3
MKP108	Arts Administration & Society	12	3
MKP109	The Arts Industry	12	3

or any other appropriate postgraduate unit with the Course Coordinator's approval.

■ Master of Business Administration (BS81)

Majors in: Management, Accounting, and Design and Engineering.

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$780 per 12 credit point unit (\$65 per credit point)

MBA Director: Dr Alan Williams

Coordinators:

Management Major – Mr Greg Southey

Accounting Major – Mr John Sweeting

Design and Engineering – Mr Bob Nicol

Entry Requirements

A candidate for entry into the Master of Business Administration (MBA) program should normally possess:

- (i) an undergraduate degree from a recognised Australian or overseas institution
- (ii) at least two years of appropriate full-time work experience, and
- (iii) an appropriate standard of tertiary-level achievement in quantitative methods/statistics.
A candidate who has not successfully completed at least one such approved degree-level unit will be required to complete EPN105 Statistical Methods as an elective unit in the MBA.

MANAGEMENT MAJOR (MAN)

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3
Year 1, Semester 2			
ALN103	Business Law & Ethics	12	3
EPN101	Government-Business Relations	12	3
HRN105	Labour-Management Relations	12	3
MKN105	Decision Support Systems	12	3
Year 2, Semester 1			
HRN108	People in Organisations	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	
Year 2, Semester 2			
HRN112	Business Policy	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	
Part-Time Course Structure			
Year 1, Semester 1			
AYN101	Accounting Principles	12	3
HRN104	Introduction to Management	12	3
Year 1, Semester 2			
HRN105	Labour-Management Relations	12	3
MKN105	Decision Support Systems	12	3
Year 2, Semester 1			
EPN102	Managerial Economics	12	3
MKN106	Marketing Methods & Practices	12	3
Year 2, Semester 2			
ALN103	Business Law & Ethics	12	3
EPN101	Government-Business Relations	12	3
Year 3, Semester 1			
HRN108	People in Organisations	12	3
	Elective Unit	12	
Year 3, Semester 2			
HRN112	Business Policy	12	3
	Elective Unit	12	
Year 4, Semester 1			
	Elective Unit	12	
	Elective Unit	12	

Year 4, Semester 2

Elective Unit	12
Elective Unit	12

Elective Units

Elective units in the Management Major may be undertaken across a number of areas, provided that prerequisite requirements are met. Alternatively, a student may use the elective units to pursue more specialised study in an area of particular interest. Please consult the Postgraduate Studies Office, Faculty of Business for a list of currently approved elective units. Students undertaking the Management Major and who wish to major in areas such as Finance, Economics, Marketing and International Business should take FNN102 Managerial Finance as an elective unit early in their program.

MBA candidates will be permitted to undertake elective units from a limited number of advanced undergraduate units offered within the Faculty of Business. A small number of units in other Faculty master's degrees may also be available as MBA elective units.

ACCOUNTING MAJOR (ACA)

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AYN112	Financial Accounting 1 ²	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3
Year 1, Semester 2			
ALN103	Business Law & Ethics	12	3
AYN113	Financial Accounting 2	12	3
EPN101	Government-Business Relations	12	3
MKN105	Decision Support Systems	12	3
Year 2, Semester 1			
AYN114	Financial Accounting 3	12	3
FNN102	Managerial Finance	12	3
HRN108	People in Organisations	12	3
	Elective Unit (ALB122 – Law of Business Associations)	12	3
Year 2, Semester 2			
FNN303	Management Accounting	12	3
HRN112	Business Policy	12	3
	Elective Unit (ALB132 – Taxation Law)	12	3
	Elective Unit (AYN120 Auditing)	12	3

Part-Time Course Structure

Year 1, Semester 1

AYN112	Financial Accounting 1 ²	12	3
HRN104	Introduction to Management	12	3

Year 1, Semester 2

EPN101	Government-Business Relations	12	3
MKN105	Decision Support Systems	12	3

Year 2, Semester 1

EPN102	Managerial Economics	12	3
MKN106	Marketing Methods & Practices	12	3

Year 2, Semester 2

ALN103	Business Law & Ethics	12	3
AYN113	Financial Accounting 2	12	3

² AYN101 Accounting Principles is incompatible with AYN112 Financial Accounting 1.

Year 3, Semester 1

FNN102	Managerial Finance	12	3
HRN108	People in Organisations	12	3

Year 3, Semester 2

FNN303	Management Accounting	12	3
HRN112	Business Policy	12	3

Year 4, Semester 1

AYN114	Financial Accounting 3	12	3
	Elective Unit (ALB122 – Law of Business Associations)	12	3

Year 4, Semester 2

	Elective Unit (ALB132 – Taxation Law)	12	3
	Elective Unit (AYN120 – Auditing)	12	3

Elective Units

To satisfy the academic requirements for Associate level membership of the Australian Society of CPAs and the Institute of Chartered Accountants in Australia, the following three units must be completed as elective units:

ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
AYN120	Auditing	12	3

Accounting Major students who have not successfully completed at least one quantitative methods/statistics degree-level unit will be required to take the unit EPN105 Statistical Methods as an additional elective unit. Suggested elective units are noted in brackets in the course structure

DESIGN AND ENGINEERING MAJOR**Full-Time Course Structure**

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3

Year 1, Semester 2

ALN103	Business Law & Ethics	12	3
EPN101	Government-Business Relations	12	3
HRN105	Labour-Management Relations	12	3
MKN105	Decision Support Systems	12	3

Year 2, Semester 1

HRN108	People in Organisations	12	3
MEN170	Systems Modelling & Simulation	12	3
	Elective Unit	12	
	Elective Unit	12	

Year 2, Semester 2

HRN112	Business Policy	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practice	12	3

Year 1, Semester 2

EPN101	Government-Business Relations	12	3
MKN105	Decision Support Systems	12	3

Year 2, Semester 1

EPN102	Managerial Economics	12	3
MEN170	Systems Modelling & Simulations	12	3

Year 2, Semester 2

ALN103	Business Law & Ethics	12	3
HRN105	Labour-Management Relations	12	3

Year 3, Semester 1

AYN101	Accounting Principles	12	3
HRN108	People in Organisations	12	3

Year 3, Semester 2

HRN112	Business Policy	12	3
	Elective Unit	12	

Year 4, Semester 1

	Elective Unit	12	
	Elective Unit	12	

Year 4, Semester 2

	Elective Unit	12	
	Elective Unit	12	

Exemptions/Substitutions

- (i) Holders of postgraduate awards are eligible to apply for MBA exemptions. Such exemptions will not be awarded as a whole; rather, they are granted on a unit by unit basis, on the basis of successful previous study. MBA students who have completed a Graduate Diploma in Business Administration are eligible to apply for up to eight exemptions.
- (ii) An MBA applicant who possesses a Bachelor of Business or other approved undergraduate degree may apply for up to four exemptions and four substitutions provided that the results obtained in the similar undergraduate units are at least at the level of credit (or 5 on a 1-7 scale) in each case.
- (iii) All exemptions will be dealt with in terms of QUT policy, as set out in the Student Policies and Procedures section in this Handbook.
- (iv) An MBA student who has been accorded exemptions may not be permitted to graduate with a GDBA unless they actually complete four GDBA/MBA core units offered by this University.

Relationship between MBA and GDBA

Following the successful completion of eight MBA units (including at least four units from the core and field core areas), students may elect either to discontinue enrolment and to graduate with a GDBA, or to pursue eight further units in order to complete the MBA. Students who choose to graduate with a GDBA will not retain a place in the MBA; they will need to compete again for admission if they wish to complete the MBA at a later date.

■ Graduate Diploma in Advanced Accounting (BS70)

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Peter Best

Entry Requirements

Applicants should hold a degree or a diploma from a recognised tertiary institution, with an appropriate major in Accounting. In the case of a diploma, additional work may be required.

This course provides advanced level studies in Accounting, Finance and Legal Studies, and as such, assumes a knowledge of Australian business law, company law, taxation law, and accounting and auditing standards.

Students may be required to take one or more undergraduate units in order to make good any deficiency in their qualifications to enter the postgraduate course.

Course Requirements

The student must complete eight units (96 credit points total). A minimum of six units must be selected from Lists 1, 2 and 3. Up to two postgraduate units may be selected from List 4 or from any postgraduate units offered within QUT or elsewhere, subject to the approval of the Course Coordinator.

List 1

ACCOUNTING

AYN103	Advanced Company Accounting	AYN117	Financial Reporting
AYN104	Audit Sampling	AYN118	Internal Auditing
AYN106	Auditing Honours	AYN119	International Accounting
AYN107	Auditing Standards & Practice	AYN300	Accounting 1 (PY)
AYN109	Computer Auditing	AYN301	Auditing (PY)
AYN111	External Reporting Issues	AYN302	Special Topic – Public Accounting
AYN115	Financial Accounting Honours	AYN303	Accounting Information Systems (PY)

List 2

MANAGERIAL ACCOUNTING/FINANCE

FNN100	Advanced Capital Budgeting	FNN110	Managerial Accounting Issues A
FNN101	Finance Honours	FNN111	Managerial Accounting Issues B
FNN103	Financial Modelling	FNN112	Special Topic – Managerial Accounting & Finance
FNN104	Financial Risk Management	FNN300	Accounting 2 (PY)
FNN105	International Finance	FNN301	Management Accounting (PY)
FNN106	Managerial Accounting Honours		

List 3

ACCOUNTING LEGAL STUDIES

ALN101	Advanced Tax Planning	ALN110	Taxation Policy Honours
ALN102	Advanced Taxation	ALN300	Insolvency & Reconstruction (PY)
ALN104	Commercial Law Honours	ALN301	Taxation 1B (PY)
ALN105	Indirect Taxation	ALN302	Taxation 2 (PY)
ALN106	International Taxation	ALN305	Taxation 1A (PY)
ALN107	Liquidations & Receiverships		

List 4

EPN101	Government-Business Relations
HRN108	People in Organisations
HRN112	Business Policy
MAN009	Experimental Design & Statistical Analysis
MKN106	Marketing Methods & Practices

Professional Year Higher Degree Program

The Professional Year Higher Degree Program (PYHDP) allows people employed with a chartered accountant in public practice to complete their Professional Year (PY) studies at QUT within the Graduate Diploma in Advanced Accounting.

The PYHDP does not run independently of the PY program as offered by the Institute of Chartered Accountants. QUT presents this program in accordance with the Institute PY syllabus, program and timetable. **Students must enrol with the Institute as well as with QUT.** Not only will they complete the same workshops and module examinations as other PY candidates, they will also be required to complete and pass internal assessment set by this University.

Students enrolled in the PYHDP must complete the following course of study:

ALN301	Taxation 1B (PY)
ALN305	Taxation 1A (PY)
AYN117	Financial Reporting
AYN300	Accounting 1 (PY)
FNN300	Accounting 2 (PY)
	Elective Unit
	Elective Unit

Plus one of:

ALN300	Insolvency & Reconstruction (PY)
ALN302	Taxation 2 (PY)
AYN301	Auditing (PY)
AYN303	Accounting Information Systems (PY)
FNN301	Management Accounting (PY)

Postgraduate units will be offered every year subject to staff availability and student numbers.

Units Offered		Credit Points	Contact Hrs/Wk
Semester 1			
ALN101	Advanced Tax Planning	12	3
ALN102	Advanced Taxation	12	3
ALN106	International Taxation	12	3
ALN305	Taxation 1A (PY)	12	3
AYN102	Accounting Research	12	3
AYN104	Audit Sampling	12	3
AYN106	Auditing Honours	12	3
AYN107	Auditing Standards & Practice	12	3
AYN115	Financial Accounting Honours	12	3
AYN117	Financial Reporting	12	3
AYN301	Auditing (PY)	12	3
AYN303	Accounting Information Systems	12	3
FNN100	Advanced Capital Budgeting	12	3
FNN101	Finance Honours	12	3
FNN106	Managerial Accounting Honours	12	3
FNN110	Managerial Accounting Issues A	12	3
FNN111	Managerial Accounting Issues B	12	3
FNN300	Accounting 2 (PY)	12	3
FNN301	Management Accounting (PY)	12	3
Semester 2			
ALN104	Commercial Law Honours	12	3
ALN105	Indirect Taxation	12	3
ALN107	Liquidations & Receiverships	12	3
ALN110	Taxation Policy Honours	12	3
ALN300	Insolvency & Reconstruction (PY)	12	3
ALN301	Taxation 1B (PY) (Note: Classes begin in April)	12	3
ALN302	Taxation 2 (PY)	12	3
AYN103	Advanced Company Accounting	12	3
AYN109	Computer Auditing	12	3
AYN111	External Reporting Issues	12	3
AYN118	Internal Auditing	12	3
AYN119	International Accounting	12	3
AYN300	Accounting 1 (PY)	12	3

BSN100	Dissertation	24	3
FNN103	Financial Modelling	12	3
FNN104	Financial Risk Management	12	3
FNN105	International Finance	12	3

■ Graduate Diploma in Business (Administration) (BS78)

In the fields of: Arts Administration, Human Resource Management, Human Services, Management, and Organisational Change

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$780 per 12 credit point unit (\$65 per credit point)

Course Coordinator: Dr Brian Delahaye

Entry Requirements

A candidate for entry into the Graduate Diploma of Business Administration program should normally possess:

- (i) an undergraduate degree from a recognised Australian or overseas institution, and
- (ii) at least two years of appropriate full-time work experience
 - (a) Applicants for the Arts Administration major may be eligible with part-time or volunteer work experience. A selection interview is required.
 - (b) Applicants for the Human Services major must have not less than three years experience in human service organisations. A selection interview is required.

Mature age applicants without a degree but with extensive experience at an appropriate level may be considered for special entry.

ARTS ADMINISTRATION

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
HRN104 Introduction to Management	12	3
MKP108 Arts Administration & Society	12	3
Select one of the following units:		
AYN101 Accounting Principles	12	3
EPN102 Managerial Economics	12	3
Select one of the following units:		
HRN108 People in Organisations	12	3
MKN106 Marketing Methods & Practices	12	3
Year 1, Semester 2		
MKP107 Marketing for Arts Administrators	12	3
MKP109 The Arts Industry Elective Unit	12	3
Select one of the following units:		
ALN103 Business Law & Ethics	12	3
COB112 Organisational Communication	12	3
HRN105 Labour-Management Relations	12	3

Part-Time Course Structure

Year 1, Semester 1

HRN104	Introduction to Management	12	3
MKP108	Arts Administration & Society	12	3

Year 1, Semester 2

MKP109	The Arts Industry	12	3
Select one of the following units:			
ALN103	Business Law & Ethics	12	3
COB112	Organisational Communication	12	3
HRN105	Labour-Management Relations	12	3

Year 2, Semester 1

Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 2, Semester 2

MKP107	Marketing for Arts Administrators	12	3
	Elective Unit	12	

HUMAN RESOURCE MANAGEMENT**Full-Time Course Structure****Year 1, Semester 1**

HRN104	Introduction to Management	12	3
HRN108	People in Organisations	12	3
HRP110	Human Resource Management	12	3
	Elective Unit	12	

Year 1, Semester 2

HRN105	Labour Management Relations	12	3
	HR Elective Unit	12	3
	HR Elective Unit	12	3
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

HRN104	Introduction to Management	12	3
HRP110	Human Resource Management	12	3

Year 1, Semester 2

HRN105	Labour-Management Relations	12	3
	Elective Unit	12	

Year 2, Semester 1

HRN108	People in Organisations	12	3
	HR Elective Unit	12	3

Year 2, Semester 2

	HR Elective Unit	12	3
	Elective Unit	12	

HUMAN SERVICES

This major is not offered full-time.

Part-Time Course Structure**Year 1, Semester 1**

COP118	Managing Human Service Organisations 1	12	3
HRN104	Introduction to Management	12	3

Year 1, Semester 2

COP110	Social & Organisational Change	12	3
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Select one of the following units:

ALN103	Business Law & Ethics	12	3
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COB112	Organisational Communication	12	3
HRN105	Labour-Management Relations	12	3

Year 2, Semester 1

Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 2, Semester 2

COP119	Managing Human Service Organisations 2 Elective Unit	12 12	3
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MANAGEMENT

Full-Time Course Structure

Year 1, Semester 1

HRN104	Introduction to Management Elective Unit	12 12	3
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Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 1, Semester 2

	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Select one of the following units:

ALN103	Business Law & Ethics	12	3
HRN105	Labour-Management Relations	12	3

Part-Time Course Structure

Year 1, Semester 1

HRN104	Introduction to Management	12	3
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Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Year 1, Semester 2

	Elective Unit	12	3
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Select one of the following units:

ALN103	Business Law & Ethics	12	3
HRN105	Labour-Management Relations	12	3

Year 2, Semester 1

	Elective Unit	12	
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Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 2, Semester 2

	Elective Unit	12	
	Elective Unit	12	

ORGANISATIONAL CHANGE

Full-Time Course Structure

Year 1, Semester 1

COB102	Consulting for Organisational Change	12	3
HRN104	Introduction to Management	12	3

Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 1, Semester 2

COB100	Organisational Communication – Internship	12	3
COB103	Perspectives on Organisation & Environment	12	3
COP110	Social & Organisational Change	12	3

Select one of the following units:

ALN103	Business Law & Ethics	12	3
COB112	Organisational Communication	12	3
HRN105	Labour-Management Relations	12	3

Part-Time Course Structure

Year 1, Semester 1

COB102	Consulting for Organisational Change	12	3
HRN104	Introduction to Management	12	3

Year 1, Semester 2

COP110	Social & Organisational Change	12	3
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Select one of the following units:

ALN103	Business Law & Ethics	12	3
COB112	Organisational Communication	12	3
HRN105	Labour-Management Relations	12	3

Year 2, Semester 1

Select one of the following units:

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3

Select one of the following units:

HRN108	People in Organisations	12	3
MKN106	Marketing Methods & Practices	12	3

Year 2, Semester 2

COB100	Organisational Communication – Internship	12	3
COB103	Perspectives on Organisation & Environment	12	3

Notes:

- Elective units should be chosen from the approved list held by the Faculty Postgraduate Studies Office, or approved by the Course Coordinator.
- At least 50 per cent of units taken must be taken at postgraduate level.
- If students have undertaken equivalent studies in a prior award, they will be required to substitute for the unit(s) unless awarded a credit according to Graduate Diploma in Business Administration policy.
- Students intending to seek enrolment in the MBA are advised to choose elective units compatible with the MBA structure.

■ Graduate Diploma in Business Administration (BS71)

Location: Gardens Point campus

There is no annual intake into this GDBA and no provision for enrolment in this course. However, students who have gained a place in the MBA program may, following the successful completion of eight MBA units (including at least 4 of the core or field core units), elect to discontinue their enrolments and to graduate with a GDBA. They will not retain a place in the MBA. They will need to compete again for admission to the MBA if they wish to complete the MBA at a later date. It is recommended that potential applicants consider the Graduate Diploma of Business Administration (BS78).

■ Graduate Diploma in Communication (BS72)

In the fields of: Advertising, Film and Television Production, Fundraising, Journalism, Organisational Communication, and Public Relations.

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Philip Neilsen

Entry Requirements

A degree or diploma from a recognised tertiary institution, with the proviso that diploma graduates may be required to undertake additional work at the discretion of the Course Coordinator.

SPECIAL ENTRY

A limited number of places will be available to practitioners in the relevant professions who, while possessing no formal degree, can demonstrate and document significant experiential grasp of their professions. These candidates will be senior members of their profession.

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration.

Course Requirements

Bachelor of Business (Communication) graduates, if they enrol in the Graduate Diploma course, must select a major different from their undergraduate major. These students also undertake COP106 Communication Theory 1 instead of COB138 Written Communication: Theory and Practice, and MJP101 Communication Theory 2 instead of COB113 Theoretical Perspectives on Communication.

Except in exceptional circumstances and with the approval of the Dean of the Faculty, a part-time student may not enrol for more than two units in any one semester. Prerequisites for all units with COB, MJB, and MKB codes may be waived for students in the Graduate Diploma in Communication at the discretion of the Head of School or their nominee.

ADVERTISING

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB138	Written Communication: Theory & Practice	12	3
	Advertising Elective Unit selected from Group 1	12	3

	Advertising Elective Unit selected from Group 1	12	3
	Elective Unit	12	
Year 1, Semester 2			
COB113	Theoretical Perspectives on Communication	12	3
MKB126	Advertising Management	12	3
	Advertising Elective Unit selected from Group 2	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
	Advertising Elective Unit selected from Group 1	12	3

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
	Advertising Elective Unit selected from Group 1	12	3

Year 2, Semester 1

MKB125	Media Planning	12	3
	Elective Unit	12	

Year 2, Semester 2

MKB126	Advertising Management	12	3
	Advertising Elective Unit selected from Group 2	12	3

Advertising Elective Units Group 1

MKB116	Principles of Advertising	12	3
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB125	Media Planning	12	3
MKB157	Principles of Direct Marketing	12	3

Advertising Elective Units Group 2

MKB119	Advertising Copywriting – Electronic	12	3
MKB121	Retail Advertising	12	3
MKB128	Direct Response Advertising	12	3

MKB116 Principles of Advertising **must be taken** by students who have not worked in the advertising or marketing industries. It must **not** be taken by those who have worked in those industries. If in doubt, students should consult the Senior Lecturer in Advertising.

Students who have not previously studied a marketing unit are **strongly** recommended to take MKB140 Principles of Marketing as their Year 1, Semester 1 elective unit.

Students taking MKB119 Advertising Copywriting – Electronic **must** take MJB126 Video Production as their Year 2, Semester 1 elective unit.

FILM AND TELEVISION PRODUCTION

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB138	Written Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
MJB127	Narrative Concepts	12	3
MJB129	Film & Television Scriptwriting	12	3
Year 1, Semester 2			
COB113	Theoretical Perspectives on Communication	12	3
	Elective Unit	12	
	Elective Unit	12	
Select one of the following units:			
MJB114	Film & Video Business	12	3
MJB118	Fundamentals of Photography	12	3

Part-Time Course Structure

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MJB127	Narrative Concepts	12	3

Year 1, Semester 2

MJB126	Video Production	12	3
MJB129	Film & Television Scriptwriting	12	3

Year 2, Semester 1

Elective Unit	12	
Elective Unit	12	

Year 2, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
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Select one of the following units:

MJB114	Film & Video Business	12	3
MJB118	Fundamentals of Photography	12	3

Note: Advanced production units (MJB113 Film Drama Production, MJB131 Television Studio/Post Production and MJB134 Video Documentary Production) may be taken as electives in the Graduate Diploma. These are six-hour units and will run at night only as required for the terminating Bachelor of Business – Film and Television Production part-time program.

Graduate Diploma students with a Communication-based degree may, with the consent of their supervisor, substitute other units for units similar to those completed in their undergraduate degree.

FUNDRAISING

Full-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MKB140	Principles of Marketing	12	3
MKP100	Fundraising Principles	12	3
	Elective Unit	12	

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB157	Principles of Direct Marketing	12	3
MKP101	Fundraising Campaigns	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MKP100	Fundraising Principles	12	3

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB140	Principles of Marketing	12	3

Year 2, Semester 1

MKB157	Principles of Direct Marketing	12	3
	Elective Unit	12	

Year 2, Semester 2

MKP101	Fundraising Campaigns	12	3
	Elective Unit	12	

JOURNALISM

Full-Time Course Structure

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MJB139	Journalistic Ethics & Issues	12	3
MJP100	Journalistic Writing	12	3
MJP105	Theories of Journalism	12	3

Year 1, Semester 2

MJB124	Feature Writing	12	3
	Elective Unit	12	

Select one of the following units:

MJB122	Sub-Editing & Layout	12	3
MJB132	Radio & Television Journalism 1	12	3

Select one of the following units:

MJB126	Video Production	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

MJP100	Journalistic Writing	12	3
MJP105	Theories of Journalism	12	3

Year 1, Semester 2

MJB124	Feature Writing	12	3
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Select one of the following units:

MJB126	Video Production	12	3
	Elective Unit	12	

Year 2, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MJB139	Journalistic Ethics & Issues	12	3

Year 2, Semester 2

	Elective Unit	12	
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Select one of the following units:

MJB122	Sub-Editing & Layout	12	3
MJB132	Radio & Television Journalism 1	12	3

ORGANISATIONAL COMMUNICATION

Full-Time Course Structure

Year 1, Semester 1

COB106	Group Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
	Elective Unit	12	

Select one of the following units:

COB109	Issues in Publishing	12	3
CON102	Advanced Organisational Communication	12	3

Year 1, Semester 2

COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB157	Corporate Writing & Editing	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

COB106	Group Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3

Year 1, Semester 2

COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3

Year 2, Semester 1

Elective Unit	12	
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Select one of the following units:

COB109	Issues in Publishing	12	3
CON102	Advanced Organisational Communication	12	3

Year 2, Semester 2

COB157	Corporate Writing & Editing	12	3
	Elective Unit	12	

PUBLIC RELATIONS**Full-Time Course Structure****Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3
MKB129	Publicity & Promotion – Print	12	3
	Elective Unit	12	

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB123	Publication Management	12	3
MKB132	Government & Financial Relations	12	3
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB129	Publicity & Promotion – Print	12	3

Year 2, Semester 1

MKB123	Publication Management	12	3
	Elective Unit	12	

Year 2, Semester 2

MKB132	Government & Financial Relations	12	3
	Elective Unit	12	

Elective Units

It is recommended that students select their elective units from another major in the Graduate Diploma in Communication. Any deviation from this must be approved in writing by the Course Coordinator.

■ Graduate Diploma in Industrial Relations (BS74)

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Don Lambert

Entry Requirements

To be eligible for admission, an applicant must hold an approved degree or equivalent from a recognised tertiary institution. However there exists provision for special entry for people without a degree but with appropriate industrial relations experience.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ALP101	Employment Law	12	3
HRP100	International Industrial Relations	12	3
HRP107	Industrial Relations Theory	12	3
Select one of the following units:			
HRP104	Industrial Relations Practices	12	3
	Elective Unit	12	

Year 1, Semester 2

ALP102	Australian Industrial Law	12	3
HRP103	Industrial Relations Strategies & Policies	12	3
HRP106	Industrial Relations & Society	12	3
Select one of the following units:			
HRP105	Industrial Relations Processes	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

ALP101	Employment Law	12	3
HRP100	International Industrial Relations	12	3

Year 1, Semester 2

ALP102	Australian Industrial Law	12	3
HRP106	Industrial Relations & Society	12	3

Year 2, Semester 1

HRP107	Industrial Relations Theory	12	3
Select one of the following units:			
HRP104	Industrial Relations Practices	12	3
	Elective Unit	12	

Year 2, Semester 2

HRP103	Industrial Relations Strategies & Policies	12	3
Select one of the following units:			
HRP105	Industrial Relations Processes	12	3
	Elective Unit	12	

Elective Units

Elective units to be selected from:

HRN104	Introduction to Management	12	3
HRN108	People in Organisations	12	3
HRP110	Human Resource Management	12	3

or a unit approved by the Course Coordinator.

■ Graduate Certificate in Management (BS30)

Course Duration: 1 semester full-time, 1 year part-time

Total Credit Points: 48

Tuition Fees (Domestic Students): \$780 per 12 credit point unit (\$65 per credit point)

Course Coordinator: Associate Professor Tim Robinson

For details on the range of units offered in this course, contact the Faculty of Business (telephone (07) 864 2048).

■ Bachelor of Business (Honours) (BS60)

In the fields of: Accountancy, Managerial Accounting and Finance, and Accounting Legal Studies.

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Scott Holmes

Entry Requirements

To be eligible for admission, an applicant must hold the following:

- (i) a QUT Bachelor of Business (Accountancy) degree or equivalent, and
- (ii) usually should have attained a grade point average (GPA) of least 5.5 over that degree, including grades of at least credit (5) in all units directly relevant to the proposed Honours program.

Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, for whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Course Coordinator.

Course Requirements

Core Units (Compulsory)

AYN102	Accounting Research	Credit Points	Contact Hrs/Wk
BSN100	Dissertation	12	3
		24	

Other Units

Students must complete five units from this group (subject to the approval of the Course Coordinator) including at least one of AYN115, FNN101, FNN106. Elective units may be taken from postgraduate units offered by any faculty within the University, subject to the approval of the Course Coordinator.

ALN104	Commercial Law Honours	12	3
ALN110	Taxation Policy Honours	12	3
AYN106	Auditing Honours	12	3
AYN115	Financial Accounting Honours	12	3
FNN101	Finance Honours	12	3
FNN106	Managerial Accounting Honours	12	3
	Elective Unit	12	
	Elective Unit	12	

■ Bachelor of Business (Honours) (BS61)

In the fields of: Advertising, Film and Television Production, Journalism, Marketing, Organisational Communication, and Public Relations.

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48**Course Coordinators:**

Communication: Associate Professor Stuart Cunningham

Marketing: Dr Chad Perry

Entry Requirements

Applicants for admission to candidature for the Bachelor of Business (Honours) shall:

- (i) hold a Bachelor of Business from QUT with a grade point average (GPA) of 5.0 or better in relevant units studied in the three years of undergraduate study, or
- (ii) hold from QUT or from another tertiary institution, qualifications approved by the relevant Board of Studies as equivalent to the requirements set out above, including a GPA of 5.0 or above.

Alternatively, candidates who produce evidence of other qualifications and/or experience which is considered by the Dean on advice of the Course Coordinator to qualify the candidate for admission, may be accepted.

ADVERTISING, FILM AND TELEVISION PRODUCTION, JOURNALISM, ORGANISATIONAL COMMUNICATION, AND PUBLIC RELATIONS

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSP102	Communication Seminar	12	3
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
Select one of the following units:			
MJP102	Communication Policy Environment	12	3
MJP105	The Theories of Journalism	12	3
COP108	Communication Technologies & Society	12	3
Year 1, Semester 2			
BSP100	Dissertation	48	
Part-Time Course Structure			
Year 1, Semester 1			
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
Year 1, Semester 2			
BSP102	Communication Seminar	12	3
BSP104	Dissertation Part 1	12	
Year 2, Semester 1			
BSP105	Dissertation Part 2	12	
Select one of the following units:			
COP108	Communication Technologies & Society	12	3
MJP102	Communication Policy Environment	12	3
MJP105	The Theories of Journalism	12	3
Year 2, Semester 2			
BSP106	Dissertation Part 3	24	

MARKETING**Full-Time Course Structure****Year 1, Semester 1**

MKN100	Seminars in Marketing Theory & Research Methods	12	3
	Elective Unit	12	
	Elective Unit	12	
MKN112/1	Thesis	12	

Year 1, Semester 2

MKN112

1/2/3/4

Thesis

36

Elective Unit

12

3

Part-Time Course Structure**Year 1, Semester 1**

MKN100

Seminars in Marketing Theory & Research Methods

12

3

Elective Unit

12

Year 1, Semester 2

Elective Unit

12

Elective Unit

12

Year 2, Semester 1

MKN112/1/2 Thesis

24

Year 2, Semester 2

MKN112/3/4 Thesis

24

Elective Units

Elective units should be chosen from the elective units listed in the Master of Business course entry.

■ Bachelor of Business (Honours) (BS62)

In the fields of: Economics, Human Resource Management, Industrial Relations, International Business, Management, and Public Policy.

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Barry Smith

Entry Requirements

Applicants for admission to candidature for a Bachelor of Business (Honours) shall;

- (i) hold a Bachelor of Business from QUT which includes a major in the area of intended Honours level study and shall have achieved a grade point average (GPA) of 5 or better in units studied in the three years of undergraduate study. Greater weight may be given to performance in advanced level units, or
- (ii) hold from QUT or another tertiary institution, qualifications approved by the Faculty of Business Academic Board as equivalent to the requirements set out in paragraph (i), or
- (iii) have other qualifications and experience which is considered by the Dean to qualify for admission.

Applications for admission to Honours will normally be at the end of the final year of the pass degree, or within 18 months of completing the pass degree.

Course Requirements

Students must complete three prescribed units (36 credit points), one elective unit (12 credit points), and a thesis (48 credit points).

Coursework units and thesis will be graded on a 1-7 scale. The Course Coordinator, in conjunction with thesis examiners and supervisors, will recommend awards of 1st class,

2nd class division A, 2nd class division B, or 3rd class Honours to Academic Board, on the basis that the thesis result is weighted at twice its allocated credit point value.

ECONOMICS

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN108	Developments in Microeconomic Theories	12	3
EPN111	Contemporary Macroeconomic Theories	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
EPN111	Contemporary Macroeconomic Theories	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
EPN108	Developments in Microeconomic Theories ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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HUMAN RESOURCE MANAGEMENT

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	3
HRN115	Contemporary Issues in HRM ¹	12	3
HRN116	HRM Cases ¹	12	3

Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit ¹	12	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
HRN115	Contemporary Issues in HRM	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN116	HRM Cases ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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¹ Semesters of these units may be changed.

INDUSTRIAL RELATIONS

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN101	Advanced Theory & Comparativism ¹	12	3
HRN117	Industrial Relations & Work Organisation ¹	12	3

Year 1, Semester 2

BSN144			
2/3/4	Thesis	36	
	Elective Unit ¹	12	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
HRN101	Advanced Theory & Comparativism	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN117	Industrial Relations & Work Organisation ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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INTERNATIONAL BUSINESS

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN110	Regional Study	12	3
	Elective Unit	12	

Year 1, Semester 2

BSN144			
2/3/4	Thesis	36	
EPN109	International Business Policy & Competitive Strategies	12	3

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
EPN110	Regional Study	12	3

Year 1, Semester 2

EPN109	International Business Policy & Competitive Strategies	12	3
	Elective Unit	12	

Year 2, Semester 1

BSN144/1/2	Thesis	24	
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Year 2, Semester 2

BSN144/3/4	Thesis	24	
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¹ Semesters of these units may be changed.

MANAGEMENT

Full-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN118	Advanced Readings in Management ¹	12	3
HRN119	Current Issues in Management ¹	12	3

Year 1, Semester 2

BSN144			
1/2/3/4	Thesis	36	
	Elective Unit ¹	12	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
HRN118	Advanced Readings in Management ¹	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
HRN119	Current Issues in Management ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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PUBLIC POLICY

Full-Time Course Structure

Year 1, Semester 1

BSN144/1	Thesis	12	
BSB400	Research Methodology	12	3
EPN104	Policy Analysis	12	3
EPN106	Program Management	12	3

Year 1, Semester 2

BSN144			
2/3/4	Thesis	36	
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

BSB400	Research Methodology	12	3
EPN104	Policy Analysis	12	3

Year 1, Semester 2

BSN144/1	Thesis	12	
EPN106	Program Management ¹	12	3

Year 2, Semester 1

BSN144/2	Thesis	12	
	Elective Unit ¹	12	

Year 2, Semester 2

BSN144/3/4	Thesis	24	
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¹ Semesters of these units may be changed.

Note: It is recommended that students select their elective units from the major in the Honours program in which they are enrolled or an approved advanced undergraduate unit which was not completed in their undergraduate degree.

■ Bachelor of Business (BS50)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Mike Quayle

Coordinators:

Accountancy and Banking and Finance: Mr Mark Christensen

Economics, International Business and Public Sector Management: Dr Jan McMillen

Human Resource Management, Management and Industrial Relations: Mr Paul Sutcliffe

Journalism and Film and Television Production: Associate Professor Len Granato

Marketing, Advertising and Public Relations: Ms Helen Stuart

Organisational Communication: Ms Lyn Simpson

Special requirements for the Bachelor of Business degree in the Faculty of Business

- ☐ Except in exceptional circumstances, and with the approval of the Dean of Faculty, a full-time student may enrol only in units selected from those contained in the normal course program for Semesters 1 and 2 in the first year of study. Similarly, a part-time student may select units only from those listed for Years 1 and 2 in the first two years of study.
- ☐ Except with the approval of the Dean, a student must enrol for more than one unit in any semester.
- ☐ It is Faculty of Business policy that a grade of 4 or higher is required in prerequisite units before a student can enrol in further units.

Course Requirements

Students commencing the Bachelor of Business must complete the following requirements:

- (i) 24 units totalling 288 credit points
- (ii) these units will comprise four faculty core units, four units as required by a student's Board of Studies and eight specific units comprising a Primary Major and one of the following:
 - (a) Extended Major and four elective units or a minor
 - (b) Secondary Major
 - (c) two minors
 - (d) one Minor and four elective units
 - (e) eight elective units.

Elective units may be chosen from any degree course at QUT or from any other recognised University subject to the approval of the student's Course Coordinator.

Note: Students enrolled in the Bachelor of Business/Bachelor of Laws degree (IF40) select units annotated "@" from the relevant major.

DEFINITIONS

Different types of Major:

- (i) **Primary Major** – a group of eight specified units in a particular discipline area. These units are specified in the course outline. Primary means the discipline in which the student wishes to graduate. Every graduate in the Bachelor of Business will have a primary major.
- (ii) **Secondary Major** – a coherent group of eight specified units in a discipline area different from the primary major.
- (iii) **Minor** – a coherent group of four specified units in a discipline area.
- (iv) **Extended Major** – an additional group of four specified units in the same discipline area as the primary major.

□ Accountancy Major (ACA)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Mark Christensen

Professional Recognition

Students completing the Bachelor of Business (Accountancy) degree satisfy the academic requirements for membership of various professional associations and statutory bodies provided the extended major indicated below is completed.

The degree is recognised for membership as satisfying the academic requirements of the following associations and boards: Australian Society of Certified Practising Accountants (ASA); Institute of Chartered Accountants in Australia (ICA); Companies Auditors Board (CAB); Tax Agents Registration Board (TARB); Australian Computer Society (ACS). The degree is also recognised for undergraduate membership by the Institute of Chartered Secretaries and Administrators (ICS&A) and also the Institute of Corporate Managers, Secretaries and Administrators (ICMS&A) provided students complete ALB120 Company Law and Practice and FNB113 Finance 3 as elective units.

To satisfy the academic requirements for CPA level membership of the ASA and membership of the ICA, graduates must complete the Accountancy Extended Major.

To satisfy the academic requirements for Associate level membership of the ASA, graduates must have completed the Accountancy major. The ASA will not accept a grade of 3 in the advanced core units for membership.

ACCOUNTANCY EXTENDED MAJOR

Full-Time Course Structure

Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
AYB110	Accounting	12	4
EPB150	Microeconomics ³	12	3
ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

³ Carseldine campus students will undertake EPB150 Microeconomics and EPB140 Macroeconomics in reverse order.

Year 1, Semester 2

ALB110	Business Law	12	3
AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics ³	12	3

Year 2, Semester 1

ALB122	Law of Business Associations ⁴	12	3
AYB101	Computerised Accounting Systems ⁴	12	4
AYB112	Company Accounting	12	4
COB160	Professional Communication (Business)	12	3

Year 2, Semester 2

AYB210	Auditing	12	3
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4

Year 3, Semester 1

ALB132	Taxation Law ⁴	12	3
FNB112	Finance 2 ⁴	12	4
FNB124	Managerial Accounting 2	12	4
	Elective Unit	12	

Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

Year 2, Semester 1

ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 2, Semester 2

ALB110	Business Law	12	3
EPB110	Business Statistics	12	3

Year 3, Semester 1

AYB101	Computerised Accounting Systems ⁴	12	4
COB160	Professional Communication (Business)	12	3

Year 3, Semester 2

BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4

Year 4, Semester 1

ALB122	Law of Business Associations ⁴	12	3
AYB112	Company Accounting	12	4

Year 4, Semester 2

AYB210	Auditing	12	3
FNB123	Managerial Accounting 1	12	4

³ Carseldine campus students will undertake EPB150 Microeconomics and EPB140 Macroeconomics in reverse order.

⁴ Extended major units.

Year 5, Semester 1

ALB132	Taxation Law ⁴	12	3
FNB112	Finance 2 ⁴	12	4

Year 5, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Elective Unit	12	

Year 6, Semester 1

FNB124	Managerial Accounting 2	12	4
	Elective Unit	12	

Year 6, Semester 2

	Elective Unit	12	
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS60 for details.

ACCOUNTANCY EXTENDED MAJOR WITH A SECONDARY MAJOR IN BUSINESS LAW AND TAXATION

Full-Time Course Structure**Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics ³	12	3
ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 1, Semester 2

ALB110	Business Law	12	3
AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics ³	12	3

Year 2, Semester 1

ALB122	Law of Business Associations ⁴	12	3
AYB101	Computerised Accounting Systems ⁴	12	4
AYB112	Company Accounting	12	4
COB160	Professional Communication (Business)	12	3

Year 2, Semester 2

ALB132	Taxation Law ⁴	12	3
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4

Year 3, Semester 1

AYB210	Auditing	12	3
FNB112	Finance 2 ⁴	12	4
FNB124	Managerial Accounting 2	12	4
	Secondary Major Option Unit	12	

Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Secondary Major Option Unit	12	
	Secondary Major Option Unit	12	
	Secondary Major Option Unit	12	

To complete the Business Law and Taxation Secondary Major, students must select four of the secondary major option units listed at the end of this section.

³ Carseldine campus students will undertake EPB150 Microeconomics and EPB140 Macroeconomics in reverse order.

⁴ Extended major units.

Part-Time Course Structure

Year 1, Semester 1

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

Year 2, Semester 1

ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 2, Semester 2

ALB110	Business Law	12	3
EPB110	Business Statistics	12	3

Year 3, Semester 1

AYB101	Computerised Accounting Systems ⁴	12	4
COB160	Professional Communication (Business)	12	3

Year 3, Semester 2

BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4

Year 4, Semester 1

ALB122	Law of Business Associations ⁴	12	3
AYB112	Company Accounting	12	4

Year 4, Semester 2

ALB132	Taxation Law ⁴	12	3
FNB123	Managerial Accounting 1	12	4

Year 5, Semester 1

AYB210	Auditing	12	3
FNB112	Finance 2 ⁴	12	4

Year 5, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Secondary Major Option Unit	12	

Year 6, Semester 1

FNB124	Managerial Accounting 2	12	4
	Secondary Major Option Unit	12	

Year 6, Semester 2

	Secondary Major Option Unit	12	
	Secondary Major Option Unit	12	

To complete the Business Law and Taxation Secondary Major, students must select four of the secondary major option units listed below.

SECONDARY MAJOR OPTION UNITS

These units do not necessarily run in both semesters. Please check the Faculty timetable at the beginning of each semester.

ALB100	Taxation Disputes	12	3
ALB103	Financial Institutions Law	12	3
ALB105	International Business Law	12	3
ALB111	Commercial & Securities Law	12	3
ALB120	Company Law & Practice	12	3
ALB121	Insolvency Law & Practice	12	3
ALB130	Indirect Taxation	12	3
ALB131	Tax Planning	12	3
ALB133	Taxation of Business Entities	12	3

⁴ Extended major units.

Full-Time Course Structure**Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics ³	12	3
ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
CSB155	Introduction to Computing	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics ³	12	3

Year 2, Semester 1

ALB110	Business Law	12	3
AYB101	Computerised Accounting Systems	12	4
COB160	Professional Communication (Business)	12	3
ITB222	Systems Analysis & Design 1	12	3

Year 2, Semester 2

AYB112	Company Accounting	12	4
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
ITB221	Laboratory 3 (Commercial Programming)	12	3

Year 3, Semester 1

AYB210	Auditing	12	3
FNB124	Managerial Accounting 2	12	4
ITB242	Decision Support Systems	12	3
ITB520	Data Communications	12	3

Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
AYB212	Computer Security & Audit	12	3
BSB102	Management & Organisation	12	3
	Elective Unit (Computing)	12	

Part-Time Course Structure**Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

Year 2, Semester 1

ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 2, Semester 2

CSB155	Introduction to Computing	12	4
EPB110	Business Statistics	12	3

Year 3, Semester 1

AYB101	Computerised Accounting Systems	12	4
COB160	Professional Communication (Business)	12	3

Year 3, Semester 2

BSB102	Management & Organisation	12	3
ITB222	Systems Analysis & Design 1	12	3

³ Carseldine campus students will undertake EPB150 Microeconomics and EPB140 Macroeconomics in reverse order.

Year 4, Semester 1

ALB110	Business Law	12	3
ITB520	Data Communications	12	3

Year 4, Semester 2

AYB112	Company Accounting	12	4
FNB123	Managerial Accounting 1	12	4

Year 5, Semester 1

AYB210	Auditing	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3

Year 5, Semester 2

AYB212	Computer Security & Audit	12	3
FNB111	Finance 1	12	4

Year 6, Semester 1

FNB124	Managerial Accounting 2	12	4
ITB242	Decision Support Systems	12	3

Year 6, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Elective Unit (Computing)	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS60 for details.

□ Advertising Major (ADV)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Subject Area Coordinator: Mr Alan Hales

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

The course is accredited by the Advertising Institute of Australia. It is also endorsed by the Advertising Federation of Australia, the Australian Association of National Advertisers and the Australian Direct Marketing Association. Graduates are eligible for Associate Membership (Dip) of the Advertising Institute of Australia.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB113	Theoretical Perspectives on Communication	12	3
ISB892	Business Computing	12	3
MKB112	Research Methods	12	3
MKB140	Principles of Marketing	12	3
Year 1, Semester 2			
COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
MKB116	Principles of Advertising	12	3
MKB142	Consumer Behaviour	12	3
Year 2, Semester 1			
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB157	Principles of Direct Marketing	12	3
	Elective Unit	12	

Year 2, Semester 2

MKB125	Media Planning	12	3
MKB141	Marketing Management	12	3
	Elective Unit ⁵		
	Elective Unit ⁵		

Year 3, Semester 1

COB106	Group Communication: Theory & Practice	12	3
EPB116	Economic Principles 1	12	3
MKB126	Advertising Management	12	3
	Elective Unit	12	

Year 3, Semester 2

EPB124	Government	12	3
MKB128	Direct Response Advertising	12	3
MKB131	Advertising Campaigns	12	3
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MKB140	Principles of Marketing	12	3

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB112	Research Methods	12	3

Year 2, Semester 1

ISB892	Business Computing	12	3
MKB116	Principles of Advertising	12	3

Year 2, Semester 2

MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3

Year 3, Semester 1

MKB125	Media Planning	12	3
MKB142	Consumer Behaviour	12	3

Year 3, Semester 2

MKB157	Principles of Direct Marketing	12	3
	Elective Unit	12	

Year 4, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
MKB141	Marketing Management	12	3

Year 4, Semester 2

MKB126	Advertising Management	12	3
	Elective Unit ⁵	12	

Year 5, Semester 1

MKB128	Direct Response Advertising	12	3
	Elective Unit ⁵	12	

Year 5, Semester 2

COB106	Group Communication: Theory & Practice	12	3
	Elective Unit	12	

Year 6, Semester 1

EPB116	Economic Principles 1	12	3
EPB124	Government	12	3

⁵ Students are recommended to take MKB119 Advertising Copywriting – Electronic and MKB121 Retail Advertising for these elective units.

Year 6, Semester 2

MKB131 Advertising Campaigns
Elective Unit

12
12

3

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

□ Banking and Finance Major (BKF)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Mark Christensen

Professional Recognition

The degree is recognised as satisfying the academic requirements for senior membership of the Australian Institute of Bankers. If the units ALB122 Law of Business Associations, ALB132 Taxation Law, AYB113 Accounting Theory and Applications, and AYB210 Auditing are completed as electives, students will satisfy the academic requirements for CPA level membership of ASA and membership of the ICA. If the units ALB120 Company Law and Practice, ALB122 Law of Business Associations, and FNB113 Finance 3 are included as electives, students will satisfy the academic requirements for membership of the Institute of Corporate Managers, Secretaries and Administrators (ICMSA).

The ASA will not accept a grade of 3 in the advanced core units for membership.

Prospective Honours students wishing to do AYN115 Financial Accounting Honours should complete AYB113 Accounting Theory and Applications in their undergraduate degree.

BANKING AND FINANCE EXTENDED MAJOR**Full-Time Course Structure**

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AYB110	Accounting [®]	12	4
EPB150	Microeconomics ^{3, ®}	12	3
ISB892	Business Computing [®]	12	4
MAB173	Quantitative Methods ^{4, ®}	12	3
Year 1, Semester 2			
ALB110	Business Law	12	3
AYB111	Financial Accounting [®]	12	4
EPB110	Business Statistics ^{4, ®}	12	3
EPB140	Macroeconomics ^{3, ®}	12	3
Year 2, Semester 1			
ALB103	Financial Institutions Law [®]	12	3
AYB112	Company Accounting ⁴	12	4
COB160	Professional Communication (Business)	12	3
FNB111	Finance 1 [®]	12	4

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

³ Carseldine campus students will undertake EPB150 Microeconomics and EPB140 Macroeconomics in reverse order.

⁴ Extended major units.

Year 2, Semester 2

BSB102	Management & Organisation®	12	3
FNB112	Finance 2®	12	4
FNB117	Financial Modelling®	12	4
FNB123	Managerial Accounting 1®	12	4

Year 3, Semester 1

FNB100	Australian Financial Markets®	12	3
FNB114	Financial Institutions – Lending®	12	3
	Elective Unit	12	
	Elective Unit	12	

Year 3, Semester 2

FNB115	Financial Institutions – Management®	12	4
FNB120	International Finance ⁴ , ®	12	4
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

Year 2, Semester 1

ISB892	Business Computing	12	4
MAB173	Quantitative Methods ⁴	12	3

Year 2, Semester 2

ALB110	Business Law	12	3
EPB110	Business Statistics ⁴	12	3

Year 3, Semester 1

COB160	Professional Communication (Business)	12	3
FNB111	Finance 1	12	4

Year 3, Semester 2

BSB102	Management & Organisation	12	3
FNB112	Finance 2	12	4

Year 4, Semester 1

ALB103	Financial Institutions Law	12	3
AYB112	Company Accounting ⁴	12	4

Year 4, Semester 2

FNB117	Financial Modelling	12	4
FNB123	Managerial Accounting 1	12	4

Year 5, Semester 1

FNB100	Australian Financial Markets	12	3
FNB114	Financial Institutions – Lending	12	3

Year 5, Semester 2

FNB115	Financial Institutions – Management	12	4
	Elective Unit	12	

Year 6, Semester 1

	Elective Unit	12	
	Elective Unit	12	

® Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

⁴ Extended major units.

Year 6, Semester 2

FNB120	International Finance ⁴	12	4
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS60 for details.

□ Economics Major (ECO)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Dr Jan McMillen

Professional Recognition

This degree satisfies the academic requirements for ordinary membership of the Economics Society of Australia, and, with the completion of the extended major, for professional membership of the Queensland division of the Economics Society, the Chartered Institute of Transport, the Market Research Society and the Australian Marketing Institute. It also partially fulfils the requirements for affiliate membership of the Australian Institute of Bankers.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EPB140	Macroeconomics ^{4,6}	12	3
ISB892	Business Computing [®]	12	4
MAB173	Quantitative Methods [®]	12	3
Select one of the following units:			
BSB102	Management & Organisation	12	3
EPB124	Government [®]	12	3
Year 1, Semester 2			
AYB110	Accounting [®]	12	4
EPB106	Australian Economic History [®]	12	3
EPB110	Business Statistics [®]	12	3
EPB150	Microeconomics ^{4,6}	12	3
Year 2, Semester 1			
EPB104	Applied Economic Techniques 1 [®]	12	3
EPB142	Macroeconomic Theory [®]	12	3
EPB152	Microeconomic Theory [®]	12	3
Select one of the following units:			
BSB102	Management & Organisation [®]	12	3
EPB124	Government	12	3
Year 2, Semester 2			
EPB141	Macroeconomic Policy [®]	12	3
EPB151	Microeconomic Policy [®]	12	3
	Major Option [®]	12	
	Elective Unit	12	

⁴ Extended major units.

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

Year 3, Semester 1

Major Option [@]	12	
Extended Major Option or Elective Unit	12	
Extended Major Option or Elective Unit	12	
Elective Unit	12	

Year 3, Semester 2

Extended Major Option or Elective Unit	12	
Extended Major Option or Elective Unit	12	
Elective Unit	12	
Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

EPB140	Macroeconomics ⁶	12	3
ISB892	Business Computing	12	4

Year 1, Semester 2

MAB173	Quantitative Methods	12	3
Select one of the following units:			
BSB102	Management & Organisation	12	3
EPB124	Government	12	3

Year 2, Semester 1

AYB110	Accounting	12	4
EPB150	Microeconomics ⁶	12	3

Year 2, Semester 2

EPB106	Australian Economic History	12	3
EPB110	Business Statistics	12	3

Year 3, Semester 1

EPB142	Macroeconomic Theory	12	3
EPB152	Microeconomic Theory	12	3

Year 3, Semester 2

EPB141	Macroeconomic Policy	12	3
EPB151	Microeconomic Policy	12	3

Year 4, Semester 1

EPB104	Applied Economic Techniques 1	12	3
Select one of the following units:			
BSB102	Management & Organisation	12	3
EPB124	Government	12	3

Year 4, Semester 2

Major Option	12	
Elective Unit	12	

Year 5, Semester 1

Major Option	12	
Elective Unit	12	

Year 5, Semester 2

Extended Major Option or Elective Unit	12	
Elective Unit	12	

Year 6, Semester 1

Extended Major Option or Elective Unit	12	
Extended Major Option or Elective Unit	12	

[@] Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

Year 6, Semester 2

Extended Major Option	12
Elective Unit	12

MAJOR AND EXTENDED MAJOR OPTIONS

Students may select their Major and Extended Major options from the list below.

EPB102	Applied Econometrics A ⁷	12	3
EPB103	Applied Econometrics B	12	3
EPB107	Business Economic Forecasting	12	3
EPB115	Economic Model Building	12	3
EPB117	Economics of Industry	12	3
EPB127	History of Economic Thought	12	3
EPB130	International Economics ⁷	12	3
EPB144	Mathematical Economic Applications ⁷	12	3
EPB153	Monetary Theory & Policy	12	3
EPB158	Public Finance	12	3
EPB160	Public Sector Economics ⁷	12	3
EPB164	Spatial & Regional Economics	12	3
EPB168	Transport & Communication Economics	12	3

Select one unit from the following:

FNB107	Corporate Finance	12	4
FNB111	Finance 1	12	4

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

□ Film and Television Production Major (FTV)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Ridley Williams

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
MJB108	Creative Sound & Image ⁸	12	4
MJB118	Fundamentals of Photography ⁸	12	3
Year 1, Semester 2			
COB134	Speech Communication: Theory & Practice	12	3
MJB120	Newsriting	12	3
MJB126	Video Production ⁸	12	3
MJB127	Narrative Concepts ⁸	12	3
Year 2, Semester 1			
COB106	Group Communication: Theory & Practice	12	3
MJB113	Film Drama Production ⁸	12	3
MJB129	Film & Television Scriptwriting ⁸	12	3
	Elective Unit	12	
Year 2, Semester 2			
MJB102	Text Analysis	12	3
MJB131	Television Studio/Post Production ⁸	12	3
MJB134	Video Documentary Production ⁸	12	3
	Elective Unit	12	

⁷ Denotes major option.

⁸ Workshops may involve a further three hours per week.

Year 3, Semester 1

ISB892	Business Computing	12	4
MJB104	Media Industries & Issues	12	3
MJB114	Film & Video Business	12	3
	Elective Unit	12	

Year 3, Semester 2

BSB102	Management & Organisation	12	3
EPB116	Economic Principles 1	12	3
	Elective Unit	12	

Select one of the following units:

MJB115	Supervised Project Film & TV ⁸	12	3
MJB147	Film Genres	12	3

Part-Time Course Structure (continuing students only)**Year 2, Semester 1**

COB134	Speech Communication: Theory & Practice	12	3
MJB127	Narrative Concepts ⁸	12	3

Year 2, Semester 2

MJB108	Creative Sound & Image ⁸	12	3
MJB129	Film & Television Scriptwriting ⁸	12	3

Year 3, Semester 1

MJB102	Text Analysis	12	3
	Elective Unit	12	

Year 3, Semester 2

COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production ⁸	12	3

Year 4, Semester 1

EPB116	Economic Principles 1	12	3
	Elective Unit	12	

Year 4, Semester 2

MJB104	Media Industries & Issues	12	3
MJB113	Film Drama Production ⁸	12	3

Year 5, Semester 1

MJB131	Television Studio/Post Production ⁸	12	3
MJB134	Video Documentary Production ⁸	12	3

Year 5, Semester 2

MJB114	Film & Video Business	12	3
MJB120	Newsriting	12	3

Year 6, Semester 1

	Elective Unit	12	
Select one of the following units:			
MJB147	Film Genres	12	3
MJB115	Supervised Project Film & TV ⁸	12	3

Year 6, Semester 2

BSB102	Management & Organisation	12	3
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

⁸ Workshops may involve a further three hours per week.

□ Human Resource Management Major (HRM)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Paul Sutcliffe

Professional Recognition

This degree satisfies the academic requirements for membership of the Australian Human Resources Institute, the Australian Institute of Management and the Australian Institute of Training and Development.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB102	Management & Organisation®	12	3
HRB130	Organisational Behaviour®	12	3
ISB892	Business Computing®	12	4
Select one of the following units:			
EPB116	Economic Principles 1®	12	3
EPB140	Macroeconomics®	12	3
Year 1, Semester 2			
AYB100	Accounting for Managers®	12	3
EPB124	Government®	12	3
HRB131	Personnel Management & Industrial Relations®	12	3
Select one of the following units:			
EPB109	Business Methodology®	12	3
EPB163	Research & Survey Methods®	12	3
Year 2, Semester 1			
HRB105	Human Resources & the Organisation®	12	3
	Major Option®	12	
	Elective Unit	12	
	Elective Unit	12	
Year 2, Semester 2			
HRB103	Employment Regulation & Administration®	12	3
HRB104	Foundation HR Competencies®	12	3
	Major Option®	12	
	Elective Unit	12	
Year 3, Semester 1			
HRB100	Advanced Organisational Behaviour®	12	3
	Major Option®	12	
	Elective Unit	12	
	Elective Unit	12	
Year 3, Semester 2			
HRB136	Strategic HRM®	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

BSB102	Management & Organisation	12	3
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® Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

Select one of the following units:

EPB116	Economic Principles 1	12	3
EPB140	Macroeconomics	12	3

Year 1, Semester 2

HRB130	Organisational Behaviour	12	3
HRB131	Personnel Management & Industrial Relations	12	3

Year 2, Semester 1

HRB105	Human Resources & the Organisation	12	3
ISB892	Business Computing	12	3

Year 2, Semester 2

HRB104	Foundation HRM Competencies	12	3
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Select one of the following units:

EPB109	Business Methodology	12	3
EPB163	Research & Survey Methods	12	4

Year 3, Semester 1

EPB124	Government	12	3
	Major Option	12	

Year 3, Semester 2

AYB100	Accounting for Managers	12	3
HRB103	Employment Regulation & Administration	12	3

Year 4, Semester 1

HRB100	Advanced Organisational Behaviour	12	3
	Elective Unit	12	

Year 4, Semester 2

	Major Option	12	
	Elective Unit	12	

Year 5, Semester 1

	Elective Unit	12	
	Elective Unit	12	

Year 5, Semester 2

	Elective Unit	12	
	Elective Unit	12	

Year 6, Semester 1

	Major Option	12	
	Elective Unit	12	

Year 6, Semester 2

HRB136	Strategic HRM	12	3
	Elective Unit	12	

MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four units from the list of options not already completed in the major.

COB102	Consulting For Organisational Change	12	3
HRB101	Advanced Training & Development	12	3
HRB102	Advocacy & Negotiation	12	3
HRB114	Industrial Relations Institutions	12	3
HRB117	International HRM	12	3
HRB119	Interviewing & Counselling	12	3
HRB120	Introductory Training & Development	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB133	Equity at Work	12	3
HRB134	Recruitment & Selection	12	3
HRB151	Independent Study	12	3
HRB402	Public Personnel Management	12	3

Select one of the following units:

COB138	Written Communication: Theory & Practice	12	3
COB160	Professional Communication (Business)	12	3

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

□ Industrial Relations Major (IRE)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Paul Sutcliffe

Professional Recognition

Graduates can join the Industrial Relations Society and the Australian Human Resources Institute.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB102	Management & Organisation [®]	12	3
EPB124	Government [®]	12	3
HRB130	Organisational Behaviour [®]	12	3
Select one of the following units:			
EPB116	Economic Principles 1 [®] , ⁹	12	3
EPB140	Macroeconomics [®] , ⁹	12	3
Year 1, Semester 2			
HRB113	Industrial Relations History [®]	12	3
HRB131	Personnel Management & Industrial Relations [®]	12	3
ISB892	Business Computing [®]	12	4
Select one of the following units:			
EPB106	Australian Economic History [®] , ⁹	12	3
EPB150	Microeconomics [®] , ⁹	12	3
Year 2, Semester 1			
ALB104	Industrial Law [®]	12	3
HRB114	Industrial Relations Institutions [®]	12	3
HRB138	Work & Society [®]	12	3
	Elective Unit	12	
Year 2, Semester 2			
HRB137	Wages & Employment [®]	12	3
	Core Option [®]	12	
	Major Option [®]	12	
	Elective Unit	12	
Year 3, Semester 1			
	Major Option [®]	12	
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

⁹ Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles 1 and EPB106 Australian Economic History.

Year 3, Semester 2

Major Option [@]	12	
Elective Unit	12	
Elective Unit	12	
Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

BSB102	Management & Organisation	12	3
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Select one of the following units:

EPB116	Economic Principles 1 ⁹	12	3
EPB140	Macroeconomics ⁹	12	3

Year 1, Semester 2

HRB113	Industrial Relations History	12	3
ISB892	Business Computing	12	4

Year 2, Semester 1

EPB124	Government	12	3
HRB131	Personnel Management & Industrial Relations	12	3

Year 2, Semester 2

HRB137	Wages & Employment	12	3
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Select one of the following units:

EPB106	Australian Economic History ⁹	12	3
EPB150	Microeconomics ⁹	12	3

Year 3, Semester 1

HRB114	Industrial Relations Institutions	12	3
	Elective Unit	12	

Year 3, Semester 2

HRB130	Organisational Behaviour	12	3
	Core Option	12	

Year 4, Semester 1

HRB138	Work & Society	12	3
	Elective Unit	12	

Year 4, Semester 2

Major Option	12	
Elective Unit	12	

Year 5, Semester 1

ALB104	Industrial Law	12	3
	Elective Unit	12	

Year 5, Semester 2

Major Option	12	
Elective Unit	12	

Year 6, Semester 1

Major Option	12	
Elective Unit	12	

Year 6, Semester 2

Elective Unit	12	
Elective Unit	12	

Students should select their core options, and major and extended major options from the following lists.

[@] Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

⁹ Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles 1 and EPB106 Australian Economic History.

CORE OPTIONS

AYB100	Accounting for Managers	12	3
EPB112	Critical Analysis	12	3
Select one of the following units:			
EPB109	Business Methodology	12	3
EPB163	Research & Survey Methods	12	3

MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four units from the list of options not already completed in the major.

HRB102	Advocacy & Negotiation	12	3
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB109	Industrial Democracy	12	3
HRB115	Industrial Relations Policies	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB133	Equity at Work	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB150	Comparative Industrial Relations	12	3

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

□ International Business Major (INB)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Dr Jan McMillen

Professional Recognition

This degree satisfies the academic requirements for membership of the Australian Business Economists Society.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
BSB102 Management & Organisation [®]	12	3
EPB140 Macroeconomics ^{®, 6}	12	3
ISB892 Business Computing [®]	12	4
Language 1 ^{®, 10}	12	
Year 1, Semester 2		
EPB150 Microeconomics ^{®, 6}	12	3
Language 2 ^{®, 10}	12	
Select one of the following units:		
AYB100 Accounting for Managers [®]	12	3
AYB110 Accounting [®]	12	4
Select one of the following units:		
EPB110 Business Statistics [®]	12	3
EPB163 Research & Survey Methods [®]	12	3

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

¹⁰ Language to be chosen from designated language options.

Year 2, Semester 1

ALB110	Business Law [@]	12	3
EPB124	Government [@]	12	3
MKB140	Principles of Marketing [@]	12	3
	Language 3 ^{@, 10}	12	

Year 2, Semester 2

EPB132	International Trade & Finance [@]	12	3
	Area Studies Option [@]	12	
	Language 4 ^{@, 10}	12	
	Elective Unit	12	

Year 3, Semester 1

	Area Studies Option [@]	12	
	Elective Unit	12	
Select one of the following units:			
EPB133	Globalisation & World Business ¹¹	12	3
	Elective Unit	12	
Select one of the following units:			
FNB107	Corporate Finance ¹¹	12	4
FNB111	Finance 1 ¹¹	12	4
	Elective Unit	12	

Year 3, Semester 2

Select one of the following units:			
ALB105	International Business Law ¹¹	12	3
EPB131	International Politics & Business ¹¹	12	3
	Elective Unit	12	
Select one of the following units:			
MKB149	International Marketing ¹¹	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

BSB102	Management & Organisation	12	3
ISB892	Business Computing	12	4

Year 1, Semester 2

EPB140	Macroeconomics ⁶	12	3
Select one of the following units:			
EPB110	Business Statistics	12	3
EPB163	Research & Survey Methods	12	3

Year 2, Semester 1

EPB124	Government	12	3
Select one of the following units:			
AYB100	Accounting for Managers	12	3
AYB110	Accounting	12	4

Year 2, Semester 2

ALB110	Business Law	12	3
EPB150	Microeconomics ⁶	12	3

[@] Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

¹⁰ Language to be chosen from designated language options.

¹¹ Denotes extended major unit.

Year 3, Semester 1

MKB140	Principles of Marketing Language 1 ¹⁰	12	3
		12	

Year 3, Semester 2

	Language 2 ¹⁰	12	
	Area Studies Option	12	

Year 4, Semester 1

	Language 3 ¹⁰	12	
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Select one of the following units:

FNB107	Corporate Finance ¹¹	12	4
FNB111	Finance 1 ¹¹	12	4
	Elective Unit	12	

Year 4, Semester 2

EPB132	International Trade & Finance Language 4 ¹⁰	12	3
		12	

Year 5, Semester 1

	Area Studies Option	12	
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Select one of the following units:

EPB133	Globalisation & World Business ¹¹	12	3
	Elective Unit	12	

Year 5, Semester 2

	Elective Unit	12	
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Select one of the following units:

MKB149	International Marketing ¹¹	12	3
	Elective Unit	12	

Year 6, Semester 1

	Elective Unit	12	
	Elective Unit	12	

Year 6, Semester 2

	Elective Unit	12	
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Select one of the following units:

ALB105	International Business Law ¹¹	12	3
EPB131	International Politics & Business ¹¹	12	3
	Elective Unit	12	

The codes for language units are as follows:

(With the permission of the subject area coordinator, and where available, languages other than those listed may be taken. Please contact the subject area coordinator for details. In addition, languages may, where appropriate, be taken at other universities.)

Year 1, Semester 1**FRENCH**

Select one of the following units:

HUB670	Introductory French 1	12	4
HUB672	French Language & Culture 1 ¹²	12	4

INDONESIAN

HUB650	Introductory Indonesian 1	12	4
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¹⁰ Language to be chosen from designated language options.

¹¹ Denotes extended major unit.

¹² Advanced level unit for students who have completed Year 12 in this language.

JAPANESE

Select one of the following units:

HUB660	Introductory Japanese 1	12	4
HUB662	Japanese Language & Culture 1 ¹²	12	4

GERMAN

Select one of the following units:

HUB735	Introductory German 1	12	4
HUB737	German Language & Culture 1 ¹²	12	4

Year 1, Semester 2**FRENCH**

Select one of the following units:

HUB671	Introductory French 2	12	4
HUB673	French Language & Culture 2	12	4

INDONESIAN

HUB651	Introductory Indonesian 2	12	4
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JAPANESE

Select one of the following units:

HUB661	Introductory Japanese 2	12	4
HUB663	Japanese Language & Culture 2	12	4

GERMAN

Select one of the following units:

HUB736	Introductory German 2	12	4
HUB738	German Language & Culture 2	12	4

Year 2, Semester 1

HUB652	Indonesian Language & Culture 1	12	4
HUB664	Japanese Language & Culture 3	12	4
HUB674	French Language & Culture 3	12	4
HUB739	German Language & Culture 3	12	4

Year 2, Semester 2

HUB653	Indonesian Language & Culture 2	12	4
HUB665	Japanese Language & Culture 4	12	4
HUB675	French Language & Culture 4	12	4
HUB740	German Language & Culture 4	12	4

Year 3, Semester 1

HUB654	Indonesian Language & Culture 3	12	4
HUB666	Japanese Language & Culture 5	12	4
HUB676	French Language & Culture 5	12	4
HUB741	German Language & Culture 5	12	4

Year 3, Semester 2

HUB655	Indonesian Language & Culture 4	12	4
HUB667	Japanese Language & Culture 6	12	4
HUB677	French Language & Culture 6	12	4
HUB742	German Language & Culture 6	12	4

Area Studies Options

Students must select either Europe or Asia to match chosen language, but may do both using elective units.

ASIA

EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3

EUROPE

EPB120	European Economic History	12	3
EPB121	European Integration	12	3

¹² Advanced level unit for students who have completed Year 12 in this language.

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

□ Journalism Major (JOU)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Associate Professor Len Granato

Professional Recognition

This degree is recognised by the Media Entertainment and Arts Alliance.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB113	Theoretical Perspectives on Communication®	12	3
EPB124	Government®	12	3
ISB892	Business Computing®	12	4
MJB120	News writing®	12	3
Year 1, Semester 2			
COB134	Speech Communication: Theory & Practice®	12	3
COB138	Written Communication: Theory & Practice®	12	3
EPB116	Economic Principles 1®	12	3
MJB121	Reporting Principles®	12	3
Year 2, Semester 1			
COB106	Group Communication: Theory & Practice®	12	3
MJB124	Feature Writing®	12	3
MJB126	Video Production®	12	3
	Elective Unit	12	
Year 2, Semester 2			
COB144	Creative Language for Communicators®	12	3
MJB132	Radio & Television Journalism 1®	12	3
MJB139	Journalistic Ethics & Issues®	12	3
	Elective Unit	12	
Year 3, Semester 1			
MJB104	Media Industries & Issues®	12	3
MJB122	Sub-Editing & Layout®	12	3
MJB138	Radio & Television Journalism 2®	12	3
	Elective Unit	12	
Year 3, Semester 2			
MJB102	Text Analysis®	12	3
MJB103	News Production®	12	3
MJB137	Public Affairs Reporting®	12	3
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MJB120	News writing	12	3

® Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

Year 2, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
MJB121	Reporting Principles	12	3

Year 2, Semester 2

EPB116	Economic Principles 1	12	3
MJB124	Feature Writing	12	3

Year 3, Semester 1

EPB124	Government	12	3
MJB139	Journalistic Ethics & Issues	12	3

Year 3, Semester 2

COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production	12	3

Year 4, Semester 1

COB144	Creative Language for Communicators	12	3
MJB132	Radio & Television Journalism 1	12	3

Year 4, Semester 2

MJB104	Media Industries & Issues	12	3
MJB138	Radio & Television Journalism 2	12	3

Year 5, Semester 1

MJB137	Public Affairs Reporting	12	3
	Elective Unit	12	

Year 5, Semester 2

MJB122	Sub-Editing & Layout	12	3
	Elective Unit	12	

Year 6, Semester 1

MJB102	Text Analysis	12	3
MJB103	News Production	12	3

Year 6, Semester 2

	Elective Unit	12	
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline BS61 for details.

□ Management Major (MAN)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Paul Sutcliffe

Professional Recognition

This major satisfies the academic requirements for membership of the Australian Institute of Management.

Full-Time Course Structure**Year 1, Semester 1**

		Credit Points	Contact Hrs/Wk
BSB102	Management & Organisation®	12	3
EPB124	Government®, ¹³	12	3
HRB130	Organisational Behaviour®	12	3

® Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

¹³ Carseldine students will undertake EPB124 Government and ISB892 Business Computing in reverse order.

Select one of the following units:

EPB116	Economic Principles 1 [®] , ⁹	12	3
EPB140	Macroeconomics [®] , ⁹	12	3

Year 1, Semester 2

HRB131	Personnel Management & Industrial Relations [®]	12	3
ISB892	Business Computing [®] , ¹³	12	4

Select one of the following units:

AYB100	Accounting for Managers [®]	12	3
AYB110	Accounting [®]	12	4

Select one of the following units:

EPB106	Australian Economic History [®] , ⁹	12	3
EPB150	Microeconomics [®] , ⁹	12	3

Year 2, Semester 1

HRB116	Innovation & Entrepreneurship [®]	12	3
HRB126	Management Processes [®]	12	3
	Major Option [®]	12	
	Elective Unit	12	

Year 2, Semester 2

HRB127	Management Theory & Issues [®]	12	3
	Major Option [®]	12	
	Elective Unit	12	
	Elective Unit	12	

Year 3, Semester 1

HRB129	Operations & Production Management [®]	12	3
	Major Option [®]	12	
	Elective Unit	12	
	Elective Unit	12	

Year 3, Semester 2

HRB125	Management Strategy & Policy [®]	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure

Year 1, Semester 1

BSB102	Management & Organisation	12	3
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Select one of the following units:

EPB116	Economic Principles 1 ⁹	12	3
EPB140	Macroeconomics ⁹	12	3

Year 1, Semester 2

HRB130	Organisational Behaviour	12	3
HRB131	Personnel Management & Industrial Relations	12	3

Year 2, Semester 1

HRB126	Management Processes	12	3
ISB892	Business Computing	12	4

Year 2, Semester 2

Select one of the following units:

AYB100	Accounting for Managers	12	3
AYB110	Accounting	12	4

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (1F40).

⁹ Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles 1 and EPB106 Australian Economic History.

¹³ Carseldine students will undertake EPB124 Government and ISB892 Business Computing in reverse order.

Select one of the following units:

EPB106	Australian Economic History ⁹	12	3
EPB150	Microeconomics ⁹	12	3

Year 3, Semester 1

EPB124	Government	12	3
HRB116	Innovation & Entrepreneurship	12	3

Year 3, Semester 2

Major Option	12	
Elective Unit	12	

Year 4, Semester 1

HRB129	Operations & Production Management	12	3
	Elective Unit	12	

Year 4, Semester 2

HRB127	Management Theory & Issues	12	3
	Elective Unit	12	

Year 5, Semester 1

Major Option	12	
Elective Unit	12	

Year 5, Semester 2

Elective Unit	12	
Elective Unit	12	

Year 6, Semester 1

Major Option	12	
Elective Unit	12	

Year 6, Semester 2

HRB125	Management Policy & Strategy	12	3
	Elective Unit	12	

MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four units from the list of options not already completed in the major.

COB102	Consulting for Organisational Change	12	3
FNB111	Finance I	12	4
HRB105	Human Resources & the Organisation	12	3
HRB114	Industrial Relations Institutions	12	3
HRB118	International Management	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRB147	Sports Administration	12	3
HRB151	Independent Study	12	3
HRB403	Quality Management	12	3
MKB140	Principles of Marketing	12	3

Select one of the following units:

EPB109	Business Methodology	12	3
EPB163	Research & Survey Methods	12	3

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

⁹ Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles 1 and EPB106 Australian Economic History.

□ Marketing Major (MKG)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Ms Cathy Neal

Professional Recognition

Students of the marketing degree may meet the requirements for membership of a number of professional bodies. These could include the Australian Marketing Institute, the Marketing Research Society of Australia, the Australian Institute of Management and the American Marketing Association. Details of such membership may be obtained through the School of Marketing, Advertising and Public Relations.

Full-Time Course Structure

		Credit Points	Contract Hrs/Wk
Year 1, Semester 1			
COB160	Professional Communication (Business) [®]	12	3
EPB116	Economic Principles 1 [®]	12	3
ISB892	Business Computing [®]	12	4
MKB140	Principles of Marketing [®]	12	3
Year 1, Semester 2			
EPB109	Business Methodology [®]	12	3
MKB142	Consumer Behaviour [®]	12	3
Select one of the following units:			
AYB100	Accounting for Managers [®]	12	3
AYB110	Accounting [®]	12	4
Select one of the following units:			
BSB102	Management & Organisation [®]	12	3
EPB124	Government [®]	12	3
Year 2, Semester 1			
ALB110	Business Law [®]	12	3
MKB141	Marketing Management [®]	12	3
	Elective Unit	12	
	Elective Unit	12	
Year 2, Semester 2			
MKB146	Services Marketing [®]	12	3
	Elective Unit	12	
	Elective Unit	12	
Select one of the following units:			
MKB108	Market Practices	12	3
MKB148	Marketing Decision Making [®]	12	3
Year 3, Semester 1			
MKB136	Marketing Logistics [®]	12	3
MKB151	Marketing Research [®]	12	3
	Elective Unit	12	
	Elective Unit	12	
Year 3, Semester 2			
MKB155	Strategic Marketing [®]	12	3
	Elective Unit	12	
	Elective Unit	12	
Select one of the following units:			
FNB107	Corporate Finance ^{®, 14}	12	4
FNB111	Finance 1 [®]	12	4

[®] Units for students enrolled in the Bachelor of Business/Bachelor of Laws (IF40).

¹⁴ Students not wishing to do more Finance units are advised to complete FNB107 Corporate Finance.

Part-Time Course Structure

Year 1, Semester 1

EPB116	Economic Principles 1	12	3
MKB140	Principles of Marketing	12	3

Year 1, Semester 2

COB160	Professional Communication (Business)	12	3
ISB892	Business Computing	12	4

Year 2, Semester 1

MKB142	Consumer Behaviour	12	3
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Select one of the following units:

AYB100	Accounting for Managers	12	3
AYB110	Accounting	12	4

Year 2, Semester 2

EPB109	Business Methodology	12	3
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Select one of the following units:

BSB102	Management & Organisation	12	3
EPB124	Government	12	3

Year 3, Semester 1

MKB141	Marketing Management	12	3
	Elective Unit	12	

Year 3, Semester 2

MKB146	Services Marketing	12	3
	Elective Unit	12	

Year 4, Semester 1

ALB110	Business Law	12	3
	Elective Unit	12	

Year 4, Semester 2

	Elective Unit	12	
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Select one of the following units:

MKB108	Market Practices	12	3
MKB148	Marketing Decision Making	12	3

Year 5, Semester 1

MKB151	Marketing Research	12	3
	Elective Unit	12	

Year 5, Semester 2

	Elective Unit	12	
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Select one of the following units:

FNB107	Corporate Finance ¹⁴	12	4
FNB111	Finance 1	12	4

Year 6, Semester 1

MKB136	Marketing Logistics	12	3
	Elective Unit	12	

Year 6, Semester 2

MKB155	Strategic Marketing	12	3
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

¹⁴ Students not wishing to do more Finance units are advised to complete FNB107 Corporate Finance.

□ Organisational Communication Major (ORC)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Ms Lyn Simpson

Professional Recognition

Strands 1 and 3 graduates may become members of the Society of Business Communicators and other similar professional organisations. Strand 2 graduates may become members of the Institute of Management Consulting, Australia, the Australian Institute of Training and Development, and affiliate members of the Australian Institute of Management.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COB110	Organisation & Society	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4
Year 1, Semester 2			
BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
Select one of the following units:			
COB105	Business Ethics	12	3
MEB120	News Writing	12	3
Year 2, Semester 1			
COB106	Group Communication: Theory & Practice	12	3
COB118	Communication Technology in Organisations	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	
Year 2, Semester 2			
COB159	Research Concepts & Techniques	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	
Select one of the following units:			
COB112	Organisational Communication (Strand 1)	12	3
COB108	Inter-Organisational Relations (Strand 2)	12	3
COB123	Issues in Communication Technology (Strand 3)	12	3
Year 3, Semester 1			
COB102	Consulting for Organisational Change	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	
Select one of the following units:			
COB158	Advanced Speech Communication (Theory & Practice) (Strand 1)	12	3
COB129	Organisational Processes (Strand 2)	12	3
COB120	Business Communication (Strand 3)	12	3
Year 3, Semester 2			
COB100	Organisational Communication Internship	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

Select one of the following units:

COB157	Corporate Writing & Editing (Strand 1)	12	3
COB103	Perspectives on Organisations & Environment (Strand 2)	12	3
COB101	Computer-Mediated Communication (Strand 3)	12	3

Part-Time Course Structure

Year 1, Semester 1

COB110	Organisation & Society	12	3
COB138	Written Communication: Theory & Practice	12	3

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
ISB892	Business Computing	12	4

Year 2, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3

Year 2, Semester 2

BSB102	Management & Organisation	12	3
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Select one of the following units:

COB105	Business Ethics	12	3
MJB120	Newsriting	12	3

Year 3, Semester 1

COB106	Group Communication: Theory & Practice	12	3
COB118	Communication Technology in Organisations	12	3

Year 3, Semester 2

COB159	Research Concepts & Techniques	12	3
	Elective Unit/Minor/Major 2	12	

Year 4, Semester 1

COB102	Consulting for Organisational Change	12	3
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Select one of the following units:

COB158	Advanced Speech Communication: Theory & Practice (Strand 1)	12	3
COB129	Organisational Processes (Strand 2)	12	3
COB120	Business Communication (Strand 3)	12	3

Year 4, Semester 2

	Elective Unit/Minor/Major 2	12	
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Select one of the following units:

COB112	Organisational Communication (Strand 1)	12	3
COB108	Inter-Organisational Relations (Strand 2)	12	3
COB123	Issues in Communication Technology (Strand 3)	12	3

Year 5, Semester 1

	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

Year 5, Semester 2

	Elective Unit/Minor/Major 2	12	
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Select one of the following units:

COB157	Corporate Writing & Editing (Strand 1)	12	3
COB103	Perspectives on Organisations & Environment (Strand 2)	12	3
COB101	Computer-Mediated Communication (Strand 3)	12	3

Year 6, Semester 1

	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

Year 6, Semester 2

COB100	Organisational Communication Internship	12	3
	Elective Unit/Minor/Major 2	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

□ Public Sector Management Major (PUA)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Subject Area Coordinator: Dr Jan McMillen

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

This degree satisfies the requirements for membership of the Royal Institute of Public Administration, the Institute of Municipal Management and, subject to the choice of suitable elective units, the Australian Human Resource Institute (AHRI).

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
BSB102 Management & Organisation [®]	12	3
ISB892 Business Computing [®]	12	4
EPB124 Government [®]	12	3
EPB140 Macroeconomics ^{®, 6}	12	3
Year 1, Semester 2		
EPB112 Critical Analysis [®]	12	3
EPB150 Microeconomics ^{®, 6}	12	3
EPB154 National Government [®]	12	3
EPB167 State Government [®]	12	3
Year 2, Semester 1		
EPB100 Administrative Theory [®]	12	3
EPB135 Local Government [®]	12	3
EPB163 Research & Survey Methods [®]	12	3
Elective Unit	12	
Year 2, Semester 2		
Elective Unit	12	
Elective Unit	12	
Elective Unit	12	
Select one of the following units:		
AYB100 Accounting for Managers [®]	12	3
AYB110 Accounting [®]	12	4
Year 3, Semester 1		
EPB159 Public Policy [®]	12	3
Major Option [®]	12	
Elective Unit	12	
Elective Unit	12	
Year 3, Semester 2		
EPB155 Policy & Program Evaluation [®]	12	3
Major Option [®]	12	
Elective Unit	12	
Elective Unit	12	

[®] Units for students enrolled in Bachelor of Business/Bachelor of Laws (IF40).

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

Part-Time Course Structure

Year 1, Semester 1

EPB124	Government	12	3
EPB140	Macroeconomics ⁶	12	3

Year 1, Semester 2

EPB150	Microeconomics ⁶	12	3
EPB154	National Government	12	3

Year 2, Semester 1

BSB102	Management & Organisation	12	3
ISB892	Business Computing	12	4

Year 2, Semester 2

EPB167	State Government	12	3
	Elective Unit	12	

Year 3, Semester 1

EPB135	Local Government	12	3
	Elective Unit	12	

Year 3, Semester 2

EPB112	Critical Analysis	12	3
	Elective Unit	12	

Year 4, Semester 1

EPB100	Administrative Theory	12	3
EPB163	Research & Survey Methods	12	3

Year 4, Semester 2

Elective Unit	12	
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Select one of the following units:

AYB100	Accounting for Managers	12	3
AYB110	Accounting	12	4

Year 5, Semester 1

EPB159	Public Policy	12	3
	Major Option	12	

Year 5, Semester 2

EPB155	Policy & Program Evaluation	12	3
	Major Option	12	

Year 6, Semester 1

Elective Unit	12	
Elective Unit	12	

Year 6, Semester 2

Elective Unit	12	
Elective Unit	12	

MAJOR OPTIONS

Students must choose any two of the following units:

COB160	Professional Communication (Business)	12	3
HRB127	Management Theory & Issues	12	3
HRB131	Personnel Management & Industrial Relations	12	3
HRB402	Public Personnel Management	12	3

PUBLIC SECTOR MANAGEMENT EXTENDED MAJOR

Students may take any four of the units listed below:

⁶ Students may substitute the combination of EPB116 Economic Principles 1 and EPB172 Economic Principles 2 for the combination of EPB150 Microeconomics and EPB140 Macroeconomics.

Semester 1

ALB108	Public Administrative Law	12	3
EPB125	Government & Business	12	3
EPB162	Reform & the Public Sector	12	3

Semester 2

EPB131	International Politics & Business	12	3
EPB156	Political & Administrative Analysis	12	3
EPB157	Public Enterprise	12	3

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

□ Public Relations Major (PUR)

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Subject Area Coordinator: Mr Bernie Murchison

Professional Recognition

Students of the Public Relations degree may, as a result of their choice of area of major study or elective study, meet the requirements of membership of a number of professional bodies. These could include the Public Relations Institute of Australia, the Society of Business Communicators as well as associated and international bodies. Details of such memberships can be obtained through the School of Marketing, Advertising and Public Relations.

BUSINESS
Full-Time Course Structure

Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

COB113	Theoretical Perspectives on Communication	12	3
EPB116	Economic Principles 1	12	3
MJB120	Newsriting	12	3
MKB140	Principles of Marketing	12	3

Year 1, Semester 2

COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4
MKB124	Public Relations Principles	12	3

Year 2, Semester 1

MJB126	Video Production	12	3
MKB112	Research Methods	12	3
MKB129	Publicity & Promotion – Print	12	3

Select one of the following units:

COB106	Group Communication: Theory & Practice	12	3
MJB104	Media Industries & Issues	12	3

Year 2, Semester 2

MKB123	Publication Management	12	3
MKB130	Publicity & Promotion – Electronic	12	3
MKB142	Consumer Behaviour	12	3
	Elective Unit	12	

Year 3, Semester 1

EPB124	Government	12	3
MKB120	Public Relations Writing & Editing	12	3
MKB133	Public Relations Consulting & Management	12	3
	Elective Unit	12	

Year 3, Semester 2

MKB117	Public Relations Campaigns	12	3
MKB132	Government & Financial Relations	12	3
	Elective Unit	12	
	Elective Unit	12	

Part-Time Course Structure**Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4

Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MJB120	News writing	12	3

Year 2, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3

Year 2, Semester 2

MJB126	Video Production	12	3
MKB129	Publicity & Promotion – Print	12	3

Year 3, Semester 1

MKB130	Publicity & Promotion – Electronic	12	3
MKB140	Principles of Marketing	12	3

Year 3, Semester 2

MKB142	Consumer Behaviour	12	3
Select one of the following units:			
COB106	Group Communication: Theory & Practice	12	3
MJB104	Media Industries & Issues	12	3

Year 4, Semester 1

EPB116	Economic Principles 1	12	3
MKB123	Publication Management	12	3

Year 4, Semester 2

EPB124	Government	12	3
MKB120	Public Relations Writing & Editing	12	3

Year 5, Semester 1

MKB112	Research Methods	12	3
MKB132	Government & Financial Relations	12	3

Year 5, Semester 2

MKB133	Public Relations Consulting & Management	12	3
	Elective Unit	12	

Year 6, Semester 1

MKB117	Public Relations Campaigns	12	3
	Elective Unit	12	

Year 6, Semester 2

	Elective Unit	12	
	Elective Unit	12	

HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

□ Secondary Majors

The following list includes all approved secondary majors offered by the Faculty of Business. Students who wish to undertake a secondary major in another Faculty are at liberty to do so with approval from the Course Coordinator.

Enrolment in units for a secondary major is subject to prerequisite requirements having been satisfied.

Eight units must be completed for a secondary major. An alternative secondary major option unit must be substituted if a unit has already been completed.

		Credit Points	Contact Hrs/Wk
ACCOUNTING SECONDARY MAJOR (For Faculty of Business students only)			
ALB110	Business Law	12	3
ALB122	Law of Business Associations	12	3
AYB101	Computerised Accounting Systems	12	4
AYB111	Financial Accounting	12	4
AYB112	Company Accounting	12	4
EPB110	Business Statistics	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
ADVERTISING SECONDARY MAJOR			
MKB116	Principles of Advertising	12	3
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB125	Media Planning	12	3
MKB126	Advertising Management	12	3
MKB128	Direct Response Advertising	12	3
MKB131	Advertising Campaigns	12	3
MKB142	Consumer Behaviour	12	3
BUSINESS LAW AND TAXATION SECONDARY MAJOR (For students other than Bachelor of Business (Accountancy))			
Eight units to be selected from the following:			
ALB100	Taxation Disputes	12	3
ALB103	Financial Institutions Law	12	3
ALB105	International Business Law	12	3
ALB110	Business Law	12	3
ALB111	Commercial & Securities Law	12	3
ALB120	Company Law & Practice	12	3
ALB121	Insolvency Law & Practice	12	3
ALB122	Law of Business Associations	12	3
ALB130	Indirect Taxation	12	3
ALB131	Tax Planning	12	3
ALB132	Taxation Law	12	3
ALB133	Taxation of Business Entities	12	3
COMMUNICATION TECHNOLOGY SECONDARY MAJOR (Bachelor of Education secondary major)			
COB118	Communication Technology in Organisations	12	3
COB119	Text Formatting & Transcription	12	3
COB120	Business Communication	12	3
COB121	Records Management	12	3
COB122	Office Procedures	12	3
COB123	Issues in Communication Technology	12	3
COB124	Office Transcription A	12	3
COB126	Supervision & Administration	12	3
COMPUTER APPLICATIONS SECONDARY MAJOR			
ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
AYB101	Computerised Accounting Systems	12	4
FNB112	Finance 2	12	4
	Computer Applications Secondary Major Option	12	

Computer Applications Secondary Major Option	12	
Computer Applications Secondary Major Option	12	
Computer Applications Secondary Major Option	12	
COMPUTER APPLICATIONS SECONDARY MAJOR OPTIONS		
AYB212 Computer Security & Audit	12	3
FNB104 Computer Applications in Finance	12	4
FNB105 Computer Applications in Managerial Accounting	12	4
FNB106 Computer Applications in Public Practice	12	4
FNB117 Financial Modelling	12	4
ECONOMICS SECONDARY MAJOR		
Eight units to be selected from the following:		
EPB102 Applied Econometrics A	12	3
EPB104 Applied Economic Techniques 1	12	3
EPB106 Australian Economic History	12	3
EPB127 History of Economic Thought	12	3
EPB130 International Economics	12	3
EPB140 Macroeconomics	12	3
EPB141 Macroeconomic Policy	12	3
EPB142 Macroeconomic Theory	12	3
EPB150 Microeconomics	12	3
EPB151 Microeconomic Policy	12	3
EPB152 Microeconomic Theory	12	3
EPB153 Monetary Theory & Policy	12	3
EPB160 Public Sector Economics	12	3
ECONOMICS AND BUSINESS FORECASTING SECONDARY MAJOR		
EPB102 Applied Econometrics A	12	3
EPB103 Applied Econometrics B	12	3
EPB104 Applied Economic Techniques 1	12	3
EPB107 Business Economic Forecasting	12	3
EPB142 Macroeconomic Theory	12	3
EPB152 Microeconomic Theory	12	3
MAB173 Quantitative Methods	12	3
Select one of the following units:		
EPB109 Business Methodology	12	3
EPB110 Business Statistics	12	3
ECONOMICS AND PUBLIC POLICY SECONDARY MAJOR		
EPB125 Government & Business	12	3
EPB142 Macroeconomic Theory	12	3
EPB152 Microeconomic Theory	12	3
EPB155 Policy & Program Evaluation	12	3
EPB157 Public Enterprise	12	3
EPB159 Public Policy	12	3
and two of:		
EPB117 Economics of Industry	12	3
EPB127 History of Economic Thought	12	3
EPB130 International Economics	12	3
EPB141 Macroeconomic Policy	12	3
EPB151 Microeconomic Policy	12	3
EPB153 Monetary Theory & Policy	12	3
EPB158 Public Finance	12	3
EPB160 Public Sector Economics	12	3
EPB164 Spatial & Regional Economics	12	3
EPB168 Transport & Communication Economics	12	3
ECONOMICS STUDIES MINOR		
(For Bachelor of Education students only)		
EPB114 Economic Development	12	3
EPB132 International Trade & Finance	12	3
EPB140 Macroeconomics	12	3
EPB150 Microeconomics	12	3

EPB163	Research & Survey Methods	12	3
EPB171	Economic Analysis & Policy	12	3
ECONOMICS STUDIES MAJOR			
(For Bachelor of Education students only)			
The above minor plus:			
EPB106	Australian Economic History	12	3
EPB111	Comparative Economic Systems	12	3
FILM AND TELEVISION PRODUCTION SECONDARY MAJOR			
Workshops may involve a further three hours per week.			
MJB108	Creative Sound & Image	12	4
MJB113	Film Drama Production	12	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
MJB127	Narrative Concepts	12	3
MJB129	Film & Television Scriptwriting	12	3
MJB134	Video Documentary Production	12	3
Select one of the following units:			
MJB114	Film & Video Business	12	3
MJB131	Television Studio/Post Production	12	3
FINANCE SECONDARY MAJOR			
ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
FNB100	Australian Financial Markets	12	3
FNB112	Finance 2	12	4
	Finance Secondary Major Option	12	
	Finance Secondary Major Option	12	
	Finance Secondary Major Option	12	
	Finance Secondary Major Option	12	
FINANCE SECONDARY MAJOR OPTIONS			
ALB103	Financial Institutions – Law	12	3
ALB110	Business Law	12	3
FNB113	Finance 3	12	4
FNB114	Financial Institutions – Lending	12	3
FNB115	Financial Institutions – Management	12	4
FNB117	Financial Modelling	12	4
FNB120	International Finance	12	4
FNB126	Portfolio & Security Analysis	12	4
GOVERNMENT SECONDARY MAJOR OPTIONS			
Eight units to be selected from the following:			
EPB100	Administrative Theory	12	3
EPB124	Government	12	3
EPB125	Government & Business	12	3
EPB131	International Politics & Business	12	3
EPB135	Local Government	12	3
EPB154	National Government	12	3
EPB155	Policy & Program Evaluation	12	3
EPB156	Political & Administrative Analysis	12	3
EPB157	Public Enterprise	12	3
EPB159	Public Policy	12	3
EPB162	Reform & the Public Sector	12	3
EPB167	State Government	12	3
HUMAN RESOURCE MANAGEMENT SECONDARY MAJOR			
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB130	Organisational Behaviour	12	3
HRB131	Personnel Management & Industrial Relations	12	3
HRB136	Strategic HRM	12	3
	HRM Secondary Major Option	12	

	HRM Secondary Major Option	12	
	HRM Secondary Major Option	12	
HUMAN RESOURCE MANAGEMENT SECONDARY MAJOR OPTIONS			
COB102	Consulting for Organisational Change	12	3
HRB100	Advanced Organisational Behaviour	12	3
HRB101	Advanced Training & Development	12	3
HRB102	Advocacy & Negotiation	12	3
HRB104	Foundation HR Competencies	12	3
HRB114	Industrial Relations Institutions	12	3
HRB119	Interviewing & Counselling	12	3
HRB120	Introductory Training & Development	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB133	Equity at Work	12	3
HRB134	Recruitment & Selection	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB146	Special Topic – HRM	12	3
HRB151	Independent Study	12	3
HRB402	Public Personnel Management	12	3
INDUSTRIAL RELATIONS SECONDARY MAJOR			
BSB102	Management & Organisation	12	3
HRB114	Industrial Relations Institutions	12	3
HRB131	Personnel Management & Industrial Relations	12	3
	Industrial Relations Secondary Major Option	12	
	Industrial Relations Secondary Major Option	12	
	Industrial Relations Secondary Major Option	12	
	Industrial Relations Secondary Major Option	12	
	Industrial Relations Secondary Major Option	12	
INDUSTRIAL RELATIONS SECONDARY MAJOR OPTIONS			
HRB102	Advocacy & Negotiation	12	3
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB109	Industrial Democracy	12	3
HRB110	Industrial Law	12	3
HRB113	Industrial Relations History	12	3
HRB115	Industrial Relations Policies	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB137	Wages & Employment	12	3
HRB138	Work & Society	12	3
HRB144	Public Sector Industrial Relations	12	3
HRP100	International Industrial Relations	12	3
INTERNATIONAL BUSINESS SECONDARY MAJOR			
Eight units to be selected from the following:			
ALB105	International Business Law	12	3
EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3
EPB111	Comparative Economic Systems	12	3
EPB114	Economic Development	12	3
EPB120	European Economic History	12	3
EPB121	European Integration	12	3
EPB131	International Politics & Business	12	3
EPB132	International Trade & Finance	12	3
EPB133	Globalisation & World Business	12	3
HRB118	International Management	12	3
MKB149	International Marketing	12	3
	Language 1	12	3
	Language 2	12	3
	Language 3	12	3
	Language 4	12	3
INTERNATIONAL BUSINESS AND MANAGEMENT			
EPB131	International Politics & Business	12	3
HRB118	International Management	12	3

HRB131	Personnel Management & Industrial Relations OR, for those who have already completed HRB131 select one of the following units:	12	3
HRB117	International H.R.M.	12	3
HRB150	Comparative Industrial Relations	12	3
Select one of the following units:			
EPB132	International Trade & Finance		
EPB133	Globalisation & World Business	12	3
And any four units from:			
ALB105	International Business Law	12	3
EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3
EPB120	European Economic History	12	3
EPB121	European Integration	12	3
EPB132	International Trade & Finance	12	3
EPB133	Globalisation & World Business	12	3
HRB117	International H.R.M.		
HRB150	Comparative Industrial Relations	12	3
MKB149	International Marketing	12	3
	Language 1	12	3
	Language 2	12	3
	Language 3	12	3
	Language 4	12	3
JOURNALISM SECONDARY MAJOR			
MJB120	Newsriting	12	3
MJB121	Reporting Principles	12	3
MJB122	Sub-Editing & Layout	12	3
MJB124	Feature Writing	12	3
MJB132	Radio & Television Journalism 1	12	3
MJB137	Public Affairs Reporting	12	3
MJB138	Radio & Television Journalism 2	12	3
MJB139	Journalistic Ethics & Issues	12	3
MANAGEMENT SECONDARY MAJOR			
BSB102	Management & Organisation	12	3
HRB126	Management Processes	12	3
HRB127	Management Theory & Issues	12	3
HRB131	Personnel Management & Industrial Relations	12	3
	Management Secondary Major Option	12	
	Management Secondary Major Option	12	
	Management Secondary Major Option	12	
	Management Secondary Major Option	12	
MANAGEMENT SECONDARY MAJOR OPTIONS			
COB134	Speech Communication: Theory & Practice	12	3
FNB111	Finance 1	12	4
HRB105	Human Resources & the Organisation	12	3
HRB114	Industrial Relations Institutions	12	3
HRB116	Innovation & Entrepreneurship	12	3
HRB118	International Management	12	3
HRB125	Management Strategy & Policy	12	3
HRB129	Operations & Production Management	12	3
HRB133	Equity at Work	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRB147	Sports Administration	12	3
HRB151	Independent Study	12	3
HRB403	Quality Management	12	3
MKB141	Marketing Management	12	3
MARKETING SECONDARY MAJOR			
MKB140	Principles of Marketing	12	3
MKB141	Marketing Management	12	3
MKB142	Consumer Behaviour	12	3

	Marketing Secondary Major Option	12	
	Marketing Secondary Major Option	12	
	Marketing Secondary Major Option	12	
	Marketing Secondary Major Option	12	
	Marketing Secondary Major Option	12	
MARKETING SECONDARY MAJOR OPTIONS			
MKB136	Marketing Logistics	12	3
MKB143	Export Management	12	3
MKB144	Sales Management	12	3
MKB145	Retailing Management	12	3
MKB146	Services Marketing	12	3
MKB148	Marketing Decision Making	12	3
MKB149	International Marketing	12	3
MKB152	Promotional Strategy	12	3
MKB155	Strategic Marketing	12	3
MEDIA STUDIES SECONDARY MAJOR			
(Bachelor of Education secondary major)			
MJB100	Media Production	12	3
MJB105	Film & Society	12	3
MJB109	Australian Television	12	3
MJB126	Video Production	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3
MJB143	Australian Film	12	3
MEDIA STUDIES SECONDARY MAJOR			
(Bachelor of Arts secondary major)			
MJB105	Film & Society	12	3
MJB109	Australian Television	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3
MJB143	Australian Film	12	3
	Media Studies Secondary Major Option	12	
	Media Studies Secondary Major Option	12	
MEDIA STUDIES SECONDARY MAJOR OPTIONS			
MJB100	Media Production	12	3
MJB107	Gender & the Media	12	3
MJB110	Asian & Latin American Cinema	12	3
MJB126	Video Production	12	3
MJB144	European Cinema	12	3
MJB146	Australian Documentary Film	12	3
MJB147	Film Genres	12	3
MJB149	Film History	12	3
ORGANISATIONAL COMMUNICATION SECONDARY MAJOR			
BSB102	Management & Organisation	12	3
COB106	Group Communications: Theory & Practice	12	3
COB110	Organisation & Society	12	3
COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
COB157	Corporate Writing & Editing	12	3
PUBLIC POLICY SECONDARY MAJOR			
EPB125	Government & Business	12	3
EPB131	International Politics & Business	12	3
EPB154	National Government	12	3
EPB155	Policy & Program Evaluation	12	3
EPB159	Public Policy	12	3

and any three from:

ALB108	Public Administrative Law	12	3
EPB135	Local Government	12	3
EPB157	Public Enterprise	12	3
EPB166	Special Topic – Public Policy	12	3
EPB167	State Government	12	3

PUBLIC RELATIONS SECONDARY MAJOR

MJB120	Newsriting	12	3
MKB117	Public Relations Campaigns	12	3
MKB120	Public Relations Writing & Editing	12	3
MKB123	Publication Management	12	3
MKB124	Public Relations Principles	12	3
MKB129	Publicity & Promotion – Print	12	3
MKB132	Government & Financial Relations	12	3
MKB133	Public Relations Consulting & Management	12	3

PUBLIC SECTOR MANAGEMENT SECONDARY MAJOR

EPB155	Policy & Program Evaluation	12	3
EPB157	Public Enterprise	12	3
EPB159	Public Policy	12	3
EPB162	Reform & the Public Sector	12	3

plus

HRB131	Personnel Management & Industrial Relations (For those students who have not previously completed it in their primary major)	12	3
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plus

Three units from the following list (or all four units for those who completed HRB131 in their primary major):

HRB103	Employment Regulation & Administration	12	3
HRB133	Equity at Work	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB402	Public Personnel Management	12	3

SPORTS ADMINISTRATION SECONDARY MAJOR

HMB311	Movement Analysis	12	4
HMB312	Fitness Parameters	12	5
HMB321	Sport in Society	12	3
HMB392	Organising Tournaments & Events	12	3
HMB802	Structure & Policy of Australian Sport	12	3

Plus two of the following units:

HMB391	Promotion of Physical Activity	12	3
HMB393	Sport & Equity	12	3
HMB801	Sport & Mass Media	12	3

■ Associate Diploma in Business (Industrial Relations) (BS10)

Course Discontinued: No further intakes

Course Duration: 4 years part-time internal and external¹⁵

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Don Lambert

Course Structure

Continuing students should consult the Course Coordinator for details of their program of studies.

FACULTY OF EDUCATION

Courses

■ Doctor of Education (ED11)	391
■ Master of Education (ED13)	396
■ Master of Education (Research) (ED12)	404
■ Master of Education (TESOL) (ED14)	409
■ Graduate Diploma in Education (Computer Education) (ED21)	411
■ Graduate Diploma in Education (Curriculum) (ED22)	413
■ Graduate Diploma in Education (Early Childhood) (ED20)	415
■ Graduate Diploma in Education (Educational Management) (ED23)	416
■ Graduate Diploma in Education (Resource Teaching) (ED24)	418
■ Graduate Diploma in Education (Teacher-Librarianship) (ED25)	419
■ Graduate Diploma in Education (Pre-service) Early Childhood (ED35)	
Graduate Diploma in Education (Pre-service) Primary (ED36)	
Graduate Diploma in Education (Pre-service) Secondary (ED37)	420
■ Graduate Certificate in Education (ED61-ED75)	426
■ Graduate Certificate in Education (TESOL) (ED60)	430
■ Bachelor of Education (In-service) (ED26)	430
■ Bachelor of Education (Adult & Workplace Education) (ED54)	434
■ Bachelor of Education (Early Childhood) (ED52)	440
■ Bachelor of Education (Primary) (ED51)	442
■ Bachelor of Education (Secondary) (ED50)	447
■ Bachelor of Education (Early Childhood/Primary)	467
■ Bachelor of Teaching External Child Care Upgrading Program (ED42)	467

FACULTY OF EDUCATION

Course Structures

■ Doctor of Education (ED11)

Location: Kelvin Grove campus

Course Duration: Minimum of 2 years full-time or 3 years part-time for holders of a Masters degree or equivalent. Minimum of 2½ years full-time or 4 years part-time for those without a Masters degree.

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Brian Hansford

Entry Requirements

Candidates will be admitted to the EdD who:

- (i) hold a four year Education degree, or its equivalent, with First Class Honours or Honours IIA, or
 - (ii) hold a Masters degree in Education or in another field relevant to the EdD
- and have two years' practice in a position of professional responsibility in education or a closely related field.

Provisional Enrolment

Students with lesser academic qualifications but with exemplary professional experience may be given provisional enrolment on the approval of the Dean of Education.

- (i) A candidate so admitted shall be required to complete the four designated qualifying units at credit level (grade of 5) or better.
- (ii) A candidate who completes course units at a satisfactory level during the period of provisional enrolment will be permitted to count these units towards the degree.
- (iii) Unless the Higher Degrees Advisory Committee accepts that exceptional circumstances justify extension of provisional status, it must be cleared within one calendar year from enrolment in the course. Such clearance will require submission of a positive recommendation by the Course Coordinator for approval by the Higher Degrees Advisory Committee. The maximum period of extension of provisional candidature shall be one year.
- (iv) A provisional candidate who fails to achieve a credit level in any qualifying or coursework units or fails to make satisfactory progress shall have their candidature terminated or be required to show cause to the Higher Degrees Advisory Committee through the Course Coordinator as to why their candidature should not be terminated.
- (v) A candidate whose provisional candidature is terminated may, after a period of two years, be permitted to apply for re-enrolment as a provisional candidate.

Procedure for Enrolment

- (i) Before submitting an application for enrolment, a potential candidate shall consult the Course Coordinator who will nominate, through the Head of School, an academic

supervisor to assist in the preparation of the appropriate application form concerning eligibility and special interests.

- (ii) A person seeking admission to the course shall apply on the appropriate application forms through Student Administration. The completed application forms should be accompanied by any specified documentation. These will include a proposal for a course of study and research to be pursued for the purpose of obtaining the degree and other requirements as specified in the form. A person relying on qualifications from another institution of higher education shall furnish with their application evidence of such qualifications. After acknowledgement and recording of basic information by Student Administration, the application will be forwarded for consideration to the Course Coordinator.
- (iii) The Course Coordinator will forward recommendations on applications to the Dean for approval before forwarding official advice to all applicants on the outcome of their applications through Student Administration.

Course of Study

LENGTH

- (i) Candidates for the degree of Doctor of Education will normally be required to complete their course in three years of full-time study or six years of part-time study.
- (ii) Without the permission of the Higher Degrees Advisory Committee, no full-time candidate for the degree of EdD shall submit a thesis for examination more than 48 months from the date on which registration in the program was granted. The corresponding period in the case of a part-time candidate shall be 60 months.
- (iii) Where a candidate wishes to change from full-time to part-time registration, or vice versa, application must be made in writing to the Higher Degrees Advisory Committee. All such applications must specify the revised date of expected completion.
- (iv) Where application is made for permission to extend the period within which the candidate may submit a thesis for examination, details of the candidate's progress shall be presented to the Higher Degrees Advisory Committee, together with the reasons for the delay in completing the course and the expected date of completion. Where the Committee agrees to an extension, it may set a limit to the maximum period of registration in the EdD program.

CREDIT POINTS

A candidate for the Doctor of Education award will obtain a total of 72 credit points in coursework, and 216 credit points in the preparation and presentation of a thesis.

Studies in the course of the award will consist of two stages involving specified coursework and a thesis. Satisfactory performance in Stage 1 will be necessary before preparation of the thesis can commence.

Course Structure (subject to final approval)

Stage 1: Coursework

The 72 credit points of coursework in Stage 1 will consist of:

- (i) two 12 credit point units taken with students in the coursework Master of Education course, and
- (ii) one 48 credit point year-long unit (EDR700 Advanced Seminars in Interdisciplinary Studies In Education).

Note: Students entering the course with an MEd degree (or equivalent) will be granted exemption from the two 12 credit point units.

Stage 2: Research

These 216 credit points are the thesis component of the award which contains the following steps:

□ Step (a) Preparation

During the preparation of the thesis, candidates will be required to demonstrate an understanding of the research process. This understanding will include a capacity to critique research literature, to assess research designs and evaluate the appropriateness of research methodologies.

Candidates will normally complete the unit EDR701 Advanced Seminars in Applied Educational Research as part of this preparation. However, candidates who have undertaken approved prior study of an equivalent nature may seek exemption from this unit. This preparation step will involve a 20,000 word maximum.

□ Step (b) Confirmation of Candidature

All candidates must prepare and present an oral research proposal of at least 10,000 words at a special doctoral seminar.

□ Step (c) Implementation

All candidates must design, implement and orally defend a thesis of 60,000 words or equivalent.

TRANSFER OF CREDIT

Admission to the course and the application of any credit may be considered by Higher Degrees Advisory Committee, and a subsequent recommendation for approval will be made to Faculty Academic Board. Where candidates possess postgraduate qualifications in related and appropriate academic areas, credit up to a maximum of 96 credit points may be granted towards coursework.

Thesis Supervision

- (i) Normally two supervisors shall be appointed for each EdD candidate.
- (ii) One supervisor shall be the Principal Supervisor, with responsibility for supervising the candidate on a frequent basis. The Principal Supervisor shall be a member of QUT staff. A Principal Supervisor normally shall have undertaken the successful supervision of research degree candidates. Where a Principal Supervisor is proposed who has not undertaken such supervision, an Associate Supervisor should have had such experience.
- (iii) An Associate Supervisor may be appointed either from QUT or from elsewhere. Where appropriate, more than one Associate Supervisor may be appointed. The Higher Degrees Advisory Committee may approve the appointment as Associate Supervisor of a person without experience sufficient to satisfy appointment as a Principal Supervisor. Where collaboration has been arranged between QUT and another organisation, the latter is expected to recommend to the Committee a member of its staff as an Associate Supervisor.
- (iv) The Higher Degrees Advisory Committee must be satisfied regarding the qualifications and experience of all proposed supervisors.
- (v) The Principal Supervisor is required to report every six months to the Higher Degrees Advisory Committee on progress made by the candidate. Each progress report is to be sighted by the candidate and submitted through the Head of School and the Director of the Centre or Research Concentration.

Progression and Unsatisfactory Progress

PROGRESSION

In each year of candidature the academic progress of each candidate shall be reviewed by the Course Coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course units at appropriate exit levels. For candidates enrolled in coursework, it will mean the successful completion of the relevant coursework units.

All candidates are required to satisfactorily complete confirmation of candidature prior to proceeding to the thesis implementation stage.

Progress reports will be submitted at designated intervals, normally at least twice each year, to the Higher Degrees Advisory Committee.

UNSATISFACTORY PROGRESS

- (i) With respect to coursework studies, candidates who have not attained a credit level (grade of 5 or better) or who have otherwise progressed unsatisfactorily, may have their candidature terminated on the recommendation of the Higher Degrees Advisory Committee.
- (ii) With respect to the thesis project, progress which is considered clearly unsatisfactory by both the Supervisor and the Course Coordinator may lead to a recommendation by them to the Higher Degrees Advisory Committee that the candidate be excluded from the course.
- (iii) Before the Higher Degrees Advisory Committee recommends to terminate candidature, the candidate shall be given the opportunity to show cause why this action should not be taken.

Examination of the Thesis

SUBMISSION OF THESIS

- (i) A candidate should submit a minimum of three copies of a thesis to the Course Coordinator for both internal, oral and external examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners at each stage of the examining process (if the thesis is otherwise acceptable to them) before final printing and binding.
- (ii) The thesis should be accompanied by a signed declaration which states that:
 - (a) the candidate has complied with the ethics of experimentation as set out in the publication Guide to Thesis Presentation
 - (b) the thesis is the candidate's own work and that all other sources are correctly acknowledged
 - (c) the thesis has not been submitted to another institution.

EXAMINATION OF THESIS

- (i) An oral defence of the thesis will be a component of the overall thesis examination procedure. The Course Coordinator will normally act as Chairperson of a panel of three examiners for the oral examination. At such an examination, the attendance of observers, other than the Dean and relevant Head of School, is subject to the express approval of the Higher Degrees Advisory Committee.
- (ii) Examiners must receive copies of the thesis four weeks in advance of the date set for the oral examination.

- (iii) After making revisions suggested in the oral examination, candidates will submit three unbound copies of the thesis for external examination.
- (iv) Each thesis will then be examined by three examiners appointed by the Higher Degrees Advisory Committee on the recommendation of the Course Coordinator in consultation with the candidate. Such appointments should be finalised from two to four weeks prior to the anticipated submission date of the thesis. At least two of the examiners appointed will be external to the University.
- (v) Examiners will be required to submit written assessments of the thesis within eight weeks of its receipt. Those assessments will be presented on official forms forwarded with the thesis.
- (vi) When the examiners are in agreement with respect to the thesis, the Course Coordinator shall transmit the result of the examination on the prescribed form to the Chairperson of the Higher Degrees Advisory Committee. The examiners' report shall recommend (i) that the degree be awarded, with or without minor modifications to the thesis, or (ii) that the candidate be re-examined, or (iii) that the degree not be awarded. When the recommendation is that the degree be awarded, the Chairperson must return an Examiners' Report together with a certificate signed by each examiner recommending acceptance of the thesis in fulfilment of the conditions for the award of the EdD degree.
- (vii) If the examiners cannot reach agreement, they shall submit separate reports and recommendations to the Higher Degrees Advisory Committee. The Committee may then (i) not award the degree, or (ii) accept a majority recommendation with or without the advice of a further external examiner.
- (viii) A candidate who fails to satisfy the Higher Degrees Advisory Committee at the first attempt may, on the recommendation of the examiners and with the approval of the Higher Degrees Advisory Committee, be re-examined not more than once. Application must be made to the Higher Degrees Advisory Committee for approval of the re-examination arrangements.
- (ix) Re-examination shall take place within 12 months from the date on which the candidate is advised in writing of such re-examination. The Higher Degrees Advisory Committee may, on application by the candidate and supported by the Principal Supervisor, approve an extension of this period.
- (x) The examiners must give the candidate guidance on the deficiencies identified by the first examination.
- (xi) If a candidate is required to revise and resubmit a thesis, the examiners' reports will be made available to the candidate, the anonymity of the examiners being maintained.
- (xii) The Higher Degrees Advisory Committee may require that an additional external examiner be appointed for the re-examination.
- (xiii) Regulations applicable to examinations generally shall apply to the re-examination.
- (xiv) After the examination process is complete, examiners' reports will be made available to the candidate on request. The names of examiners will be released on request providing each examiner has indicated willingness to have his or her identity revealed to the candidate.
- (xv) The examiners may recommend that a candidate who has been examined for the degree of EdD be awarded the degree of Master, provided that the candidate meets or can meet the requirements of a Master's program.

Admission to Degree

Prior to admission to the award, a candidate must have three of the completed documents bound. Of these, one copy of the completed document must be submitted to the University Library, one to the Faculty Office, and one to the Principal Supervisor.

A candidate who:

- (i) fulfils the requirements of these rules, and
- (ii) whose work is of a standard that satisfies the Faculty Academic Board (after considering the results in all units and/or the reports of all examiners), and
- (iii) has otherwise complied with the provisions of all statutes and other applicable rules may be admitted to the degree of Doctor of Education.

■ Master of Education (ED13)

Location: Kelvin Grove campus

Course Duration: 1 year full-time, 2 years part-time or external¹

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Bob Elliott

Entry Requirements

Candidates will be admitted to the course who:

- (i) hold an appropriate four-year bachelor degree or equivalent at a standard acceptable to the Dean of the Faculty; or
- (ii) hold other qualifications acceptable to the Dean which may include substantial work experience in an education-related field or involvement in relevant research activities and have had at least one year's experience in some branch of education, subject to the discretion of the Dean.

Applicants may be required to provide satisfactory formal evidence of proficiency in the English Language.

Students who do not meet the entry requirements may be admitted on a provisional basis and be required to undertake preliminary coursework and reading as determined by the Course Coordinator. After satisfactory completion of the preliminary studies students will be admitted to full candidature.

Provisional Enrolment

In special circumstances and with the specific approval of the Dean, a person may be admitted to the Master of Education course on a provisional basis to complete qualifying units. The conditions which must be satisfied to meet the qualifying requirement must be detailed in writing by the Course Coordinator and endorsed by the Higher Degrees Advisory Committee for the Dean's approval.

- (i) A candidate so admitted shall be required to complete any designated qualifying units at credit level (grade of 5) or better.
- (ii) A candidate who completes course units at a satisfactory level during the period of provisional enrolment may be permitted to count these units towards the degree.

¹ Please note the full range of electives will not be available by external study in 1995.

- (iii) Unless the Higher Degrees Advisory Committee accepts that exceptional circumstances justify extension of provisional status, it must be cleared within one calendar year from enrolment in the course. Such clearance will require submission of a positive recommendation by the Course Coordinator for approval by the Higher Degrees Advisory Committee. The maximum period of extension of provisional candidature shall be one year.
- (iv) A provisional candidate who fails to achieve a credit level in any qualifying unit(s) or a pass level in any coursework units or fails to make satisfactory progress shall have their candidature terminated or be required to show cause to the Higher Degrees Advisory Committee through the Coordinator of the relevant area of interest as to why their candidature should not be terminated.
- (v) A candidate whose provisional candidature is terminated may, after a period of two years, be permitted to apply for re-enrolment as a provisional candidate.

Procedure for Enrolment

- (i) Before submitting an application for enrolment, a potential candidate shall consult the coordinator of the relevant Area of Interest of the Master of Education course concerning eligibility and special interests.
- (ii) A person seeking admission to the Master of Education course shall apply on the appropriate forms through Student Administration. The completed application forms should be accompanied by any specified documentation. These will include a proposal for a course of study and research to be pursued for the purpose of obtaining the degree and other requirements as specified in particular areas of interest. A person relying on qualifications from another institution of higher education shall furnish with their application evidence of such qualifications. After acknowledgement and recording of basic information by Student Administration, an application will be forwarded for consideration by the Area of Interest coordinator who may require the applicant to attend an interview.
- (iii) Area of Interest coordinators will forward recommendations on applications to the Dean, through the Course Coordinator, for approval before forwarding official advice to all applicants on the outcome of their applications through Student Administration.

Course Structure

A new course structure applies to all 1995 commencing and continuing students in the Master of Education course. Candidates are required to obtain a total of 96 credit points from studies in coursework units and/or from research studies.

There are two compulsory units (24 credit points) which must be taken by all students preferably in the early stages of their course:

EDN601	Major Issues in Education	12
EDN611	Understanding Educational Research	12

In addition students must complete at least two units (24 credit points) from one of the Areas of Interest. Areas of Interest that have been approved to date are:

Adult and Workplace Education
 Business Education
 Early Childhood Education
 Home Economics
 Language and Literacy Education
 Leadership and Management
 Learning Support and Inclusive Education
 Mathematics/Science/Computing Education
 Policy

Professional Studies in Curriculum
School Guidance and Counselling
Social and Environmental Education

The remaining 48 credit points may be obtained in a variety of ways as indicated by the following four pathway options.

- Option 1: Students undertake EDN612 Conducting Educational Research and the 36 Credit Point Dissertation; or
- Option 2: Students undertake two electives from across the Areas of Interest and a 24 Credit Point Project; or
- Option 3: Students undertake three elective units from across the Areas of Interest and a 12 Credit Point Independent study; or
- Option 4: Students undertake four elective units from across the Areas of Interest.

It should be noted that not all Areas of Interest will be available through external study in the first instance.

The diagram may help to clarify the various options available.

Core Units

EDN601	Major Issues in Education	12
EDN611	Understanding Educational Research	12

Individually Supervised Units

Students should consult with the Course Coordinator for further information concerning enrolment in EDN603, EDN608 and EDN620.

EDN620/1	36 Credit Point Dissertation Stage 1	12
EDN620/2	36 Credit Point Dissertation Stage 2	12
EDN620/3	36 Credit Point Dissertation Stage 3	12
EDN608/1	24 Credit Point Project Stage 1	12
EDN608/2	24 Credit Point Project Stage 2	12
EDN603	Independent Study	12
EDN602	Advanced Seminars	12

Elective Units

EDN612	Conducting Educational Research	12
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LIST A: ADULT AND WORKPLACE EDUCATION (ADW)

CUN605	Adult and Workplace Education: Principles and Practices	12
LAN611	Adult and Workplace Literacy and Numeracy	12
LEN608	Foundations of Adult Learning and Development	12
SBN608	Advanced Methods for Training in Education and Industry	12

LIST B: BUSINESS EDUCATION (BUE)

SBN607	Advanced Methods in Office Communications Technology Education	12
SBN608	Advanced Methods for Training in Education and Industry	12
SBN609	Advanced Methods in Accounting and Business Management Education	12
SBN610	Trends and Critical Issues in Business Education and Training	12

LIST C: EARLY CHILDHOOD EDUCATION (ECE)

EAN601	Early Childhood Teachers' Knowledge in Action	12
EAN602	Early Childhood Services and Policies	12
EAN603	Development in Early Childhood Contexts	12
EAN604	Young Children, Families and Community	12

MASTER OF EDUCATION COURSE

Compulsory Component

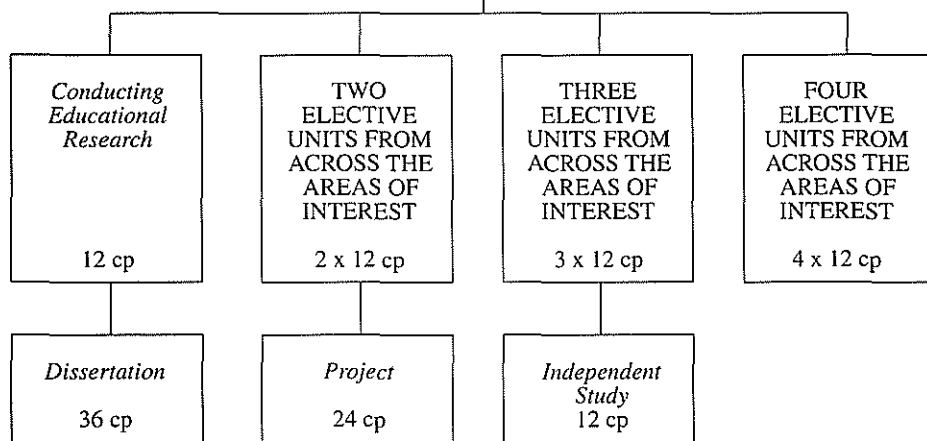
TWO CORE UNITS

<i>Major Issues in Education</i> 12 cp	<i>Understanding Educational Research</i> 12 cp
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TWO AREA OF INTEREST UNITS

Elective 1 12 cp	Elective 2 12 cp
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Elective Component



- (a) *Independent Study*, *Advanced Seminars* and *Advanced Research Unit* may be taken as elective units. Students should contact the Course Coordinator for further information about these units.
- (b) One advanced level unit may also be selected as an elective from any Faculty within the University, subject to approval by the Course Coordinator.
- (c) Those students capable of doing a larger component of research based on their GPA may consider transferring to the Master of Education (Research) course at any stage of their enrolment in the Master of Education course, in consultation with the Course Coordinator.
- (d) Students enrolled in the Master of Education may take up to two units from a relevant Graduate Diploma under the following conditions:
 - ☐ The units are approved by the Course Coordinator of the Master of Education;
 - ☐ The students undergo an alternative assessment at the Masters level as approved by the Course Coordinator;
 - ☐ Students have not done a unit in the same area in another course.

LIST D: HOME ECONOMICS (HEC)

PUN623	Home Economics, The Family and the Politics of Feminism	12
PUN625	Home Economics Philosophical Foundations	12

LIST E: LANGUAGE AND LITERACY EDUCATION (LLE)

LAN621	Textual and Cultural Studies for English Education	12
LAN602	Functional Grammar and Discourse	12
LAN608	Second Language Acquisition	12
LAN611	Adult and Workplace Literacy and Numeracy	12

LIST F: LEADERSHIP AND MANAGEMENT (LEM)

CPN603	Changing Agendas in Leadership Education*	12
CPN604	Equity and Education Management Issues and Strategies	12
CPN605	Organisational Cultures and Education Leadership	12
CPN606	Educational Leadership, Power and Careers	12
EAN605	Education Management Processes and Strategies	12
EAN606	Managing Education Personnel	12

LIST G: LEARNING SUPPORT AND INCLUSIVE EDUCATION (LSI)

LEN605	Learners with Special Needs: Programming for Inclusive Education	12
LEN606	Remediating of Learning Difficulties	12
CPN611	Policies & Practices for Inclusive Education	12
EAN607	Consultation and Teamwork	12

LIST H: MATHEMATICS/ SCIENCE/ COMPUTING EDUCATION (MSC)

MDN615	Curriculum Studies in Mathematics, Science or Technology Education	12
MDN616	Pedagogy in Mathematics, Science or Technology Education	12
MDN619	Technologically Supported Learning and Teaching Environments	12
MDN620	Student Evaluation in Mathematics, Science, Technology Education: Assessment and Intervention	12
MDN621	Mathematical and Scientific Reasoning	12

LIST I: POLICY (POL)

CPN607	Global Change, Diversity in Education	12
CPN608	Gender Equity & Education Policy	12
CPN609	Policy for Practitioners *	12
CPN610	Youth Policies & Post-Compulsory Education	12

LIST J: PROFESSIONAL STUDIES IN CURRICULUM (PSC)

CUN601	Curriculum Investigations	12
CUN602	Professional Development	12
CUN603	Empowerment for Curriculum Change	12
CUN604	Collaborative Supervision in Curriculum Practice	12

LIST K: SCHOOL GUIDANCE AND COUNSELLING (SGC)

LEN602	Advanced Educational Counselling	12
LEN603	Educational Counselling Professional Practice	12
LEN604	Psychoeducational Assessment	12
LEN607	Career Education and Career Guidance	12

LIST L: SOCIAL AND ENVIRONMENTAL EDUCATION (SEE)

SBN603	Critical Approaches in Social Education	12
SBN604	Environmental Education & Interpretation	12
SBN605	Disciplinary Approaches in Social Education	12
SBN606	Issues in Environment Education and Interpretation	12

* Core unit for Area of Interest.

Supervision

Supervision in the Master of Education course consists of two components:

- (i) the supervision of individualised coursework units, and
- (ii) the supervision of a dissertation/project.

SUPERVISION OF INDIVIDUALISED UNITS

Certain coursework units in particular areas of interest involve individual candidates working with supervising lecturers on a one-to-one basis. Here, candidates have the opportunity to explore and negotiate with their lecturers to engage in integrated professional experiences that are closely linked to the candidates' current professional needs. This interaction consists of a dialogue between candidate and lecturer to design an appropriate course of study for the particular units. Subsequently, they submit this plan of study to the area of interest coordinator for approval.

SUPERVISION OF A DISSERTATION/PROJECT

A dissertation must be submitted to conform with format, style and other guidelines as set out in the publication Guide to Thesis Presentation which is available from the Faculty of Education Office. For a project, it is not essential for students to adhere to the University guidelines on dissertations, although these may be found helpful.

(i) Dissertation/Project

- (a) The nature of the dissertation/project must permit the candidate to demonstrate the acquisition of relevant research skills and their effective application in an investigation of genuine substance and significance.
- (b) By no later than the end of the first semester of enrolment in EDN620/1 36 cp Dissertation (Stage 1) or EDN608/1 24 cp Project (Stage 1) a plan for the full program must be prepared and signed by the candidate and the principal supervisor (who shall retain copies) and be lodged along with the appropriate Ethical Clearance forms with the relevant Head of School for endorsement.
- (c) The dissertation/project must comprise a comprehensive, lucid and concise exposition on the context, objectives and conduct of the investigation and on its outcomes and their interpretation.

(ii) Supervision

- (a) For each candidate undertaking a dissertation/project a Supervisor must be appointed. An appropriate Supervisor or supervisory team should be identified early in the program when the dissertation/project topic is chosen. An appointment will be made by the Higher Degrees Advisory Committee on the advice of the relevant Head of School and the Course Coordinator.
- (b) Candidates should meet regularly with their Supervisor to discuss progress, submit drafts or progress reports or present seminars where appropriate at least each semester, and seek guidance as necessary.
- (c) Supervisors should be readily available to consult with candidates, should provide scholarly support and constructive criticism, and should assist as appropriate with access to facilities and any relevant external agencies.
- (d) In special circumstances and with the specific approval of the Higher Degrees Advisory Committee, an external Supervisor may be appointed.

Progression and Unsatisfactory Progress

PROGRESSION

In each year of candidature the academic progress of each candidate shall be reviewed by the Course Coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course units at appropriate exit levels. For candidates enrolled in the coursework degree, it will mean the successful completion of the relevant coursework units.

Progress reports will be submitted at designated intervals, normally at least twice each year, to the Higher Degrees Advisory Committee.

UNSATISFACTORY PROGRESS

- (i) With respect to coursework studies, candidates who have failed two or more units or who have otherwise progressed unsatisfactorily, may have their candidature terminated on the recommendation of the Higher Degrees Advisory Committee.
- (ii) With respect to the dissertation/project, progress which is considered clearly unsatisfactory by both the Supervisor and the area of interest coordinator may lead to a recommendation by them to the Higher Degrees Advisory Committee that the candidate be excluded from the course.
- (iii) Before the Higher Degrees Advisory Committee recommends to terminate candidature, the candidate shall be given the opportunity to show cause why this action should not be taken.

Examination of the Dissertation/Project

SUBMISSION OF DISSERTATION/PROJECT

- (i) A candidate should submit a minimum of three copies of a dissertation/project to the Course Coordinator for examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners (if the dissertation/project is otherwise acceptable to them) before final printing and binding.
- (ii) The dissertation/project should be accompanied by a signed declaration which states that:
 - (a) the candidate has complied with the ethics of experimentation as set out in the publication *Guide to Thesis Presentation*
 - (b) the dissertation/project is the candidate's own work and that all other sources are correctly acknowledged
 - (c) the dissertation/project has not been submitted to another institution.

EXAMINATION OF DISSERTATION/PROJECT

- (i) Each dissertation/project will be examined by at least two examiners appointed by the Higher Degrees Advisory Committee on the recommendation of the Course Coordinator in consultation with the candidate and the Supervisor. Such appointments should be finalised from two to four weeks prior to the anticipated submission date of the dissertation/project. At least one of the examiners appointed for 48 and 36 credit point theses will be external to the University with the exception of the 24 credit point dissertation. Examination of the project will be by an examining committee consisting of at least two examiners, one of whom may be the supervising lecturer and one of whom **may** be external to the University if that is seen to benefit the student.
- (ii) An oral defence of a specific dissertation/project may be made a component of the overall dissertation examination procedure upon the recommendation of the Higher

Degrees Advisory Committee. Should this be the case, the relevant area of interest coordinator will normally act as Chairperson of the group of examiners for the oral examination. At such an examination, the attendance of observers, other than the Dean and relevant Head of School, is subject to the express approval of the Higher Degrees Advisory Committee.

- (iii) Examiners must receive copies of the dissertation/project in reasonable time to permit its thorough consideration and appraisal before the date by which assessments are required or before any oral examination. Whether or not there is an oral examination, each examiner is required to submit a written assessment of the dissertation/project within eight weeks of its receipt.
- (iv) These assessments will be presented on official forms available from the Faculty of Education Office (Higher Degree Administration Officer) and will deal with the general standard and quality of the work and not with specific detail. They will be submitted to the Course Coordinator by the specified date and, if there is to be an oral examination, before such oral examination. These assessments are individual and confidential and should not be made available to other examiners. Each should make one of the following recommendations:
 - (a) Pass – implying that the dissertation/project will be fully satisfactory except possibly for minor editorial changes
 - (b) Resubmit – implying that the dissertation/project will be fully acceptable when certain necessary corrections or modifications are made by the candidate and resubmitted to the examiners
 - (c) Fail – implying that the dissertation/project is not of an acceptable standard.
- (v) In the case of (a) and (b) above, an examiner should provide, along with the official assessment form, a separate document indicating where corrections or modifications are required and, as appropriate, providing any constructive criticism and comment helpful to the candidate. An examiner will refer to any notably original contributions which the candidate has made and may comment on the scope for further research or postgraduate study. Such additional documents should be retained temporarily by the Course Coordinator.
- (vi) The Course Coordinator will forward the set of examiner's assessment forms (together with the additional signed judgments of each examiner respecting any oral examination) to the Higher Degrees Advisory Committee, attaching a formal recommendation based on the examiners' reports. The Faculty Academic Board may accept or reject the recommendation.
- (vii) If a recommendation of type (a) is accepted, the Higher Degrees Advisory Committee will ask the Course Coordinator to make the examiners' requirements available to the candidate while maintaining the anonymity of the examiners, and will sign an official record indicating satisfaction of all dissertation/project requirements when advised by the Course Coordinator that all changes have been completed satisfactorily.
- (viii) If a recommendation of type (b) is accepted, the Higher Degrees Advisory Committee will ask the relevant Course Coordinator to ensure that the candidate is requested to resubmit the dissertation/project with any necessary corrections or modifications and that the revised dissertation/project is forwarded to the examiners for assessment.
- (ix) If the Faculty Academic Board accepts a recommendation of type (c) the normal implication is that the candidate will be excluded from the course. However, in exceptional circumstances, the Higher Degrees Advisory Committee may grant the candidate an opportunity to submit a substantially new dissertation/project after a period of not less than six months.

- (x) Normally all examiners will be expected to rate the dissertation/project as meeting a satisfactory standard in order for a pass to be awarded. However, if there is substantial disagreement between examiners concerning the acceptability of a dissertation/project, the Faculty Academic Board may confer and seek further advice from the Higher Degree Advisory Committee before making a ruling.
- (xi) If a candidate is required to revise and resubmit a dissertation/project, the examiners' reports will be made available to the candidate, the anonymity of the examiners being maintained.
- (xii) After the examination process is complete, examiners' reports will be made available to the candidate on request. The names of examiners will be released on request providing the examiner has indicated willingness to have his or her identity revealed to the candidate.

Admission to Degree

Prior to admission to the award, a candidate must have three of the completed documents bound. Of these, one copy of the completed document must be submitted to the University Library, one to the Faculty Office, and one to the Principal Supervisor.

A candidate who:

- (i) fulfils the requirements of these rules, and
- (ii) whose work is of a standard that satisfies the Faculty Academic Board (after considering the results in all units and/or the reports of all examiners), and
- (iii) has otherwise complied with the provisions of all statutes and other applicable rules may be admitted to the degree of Master of Education.

■ Master of Education (Research) (ED12)

Location: Kelvin Grove campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Erica McWilliam

Entry Requirements

A person may enrol as a candidate for the degree of Master of Education by research if that person holds:

- (i) a four year education-related degree with a grade point average of at least 5 (on a 7 point scale) or equivalent, with demonstrated potential for further study and evidence of professional standing; or
- (ii) a graduate diploma in an education-related field with a grade point average of at least 5 (on a 7 point scale) or equivalent, with demonstrated potential for further study and evidence of professional standing; or
- (iii) an honours degree in an education-related field with a minimum of Honours IIA or IIB.

Applicants who do not have professional experience in an education-related field would normally be expected to demonstrate their potential for further study with a grade point average of 6 or better.

Applicants may be required to provide satisfactory formal evidence of proficiency in the English language.

PROVISIONAL ENROLMENT

In special circumstances and with the specific approval of the Dean, a person may be admitted to the Master of Education (Research) on a provisional basis. The conditions which must be satisfied to remove the provisional status must be detailed in writing by the Course Coordinator, endorsed by the Dean and placed on record by the Registrar.

Provisional status will not normally extend beyond one year.

PROCEDURE FOR ENROLMENT

Before submitting an application form to enter the course, a candidate should make contact with staff members who might act as supervisors for the research project. The application form requires the attachment of a preliminary research proposal and assistance from a potential supervisor or supervisors should be sought to prepare this preliminary proposal. The Course Coordinator will provide assistance by way of an introduction to the services provided by the Faculty in a manner which is sensitive to cross-cultural and gender identities of potential candidates. The Course Coordinator will provide applicants with names of suitable academic staff to approach about supervision. The availability of a suitable supervisor is a necessary prerequisite for admission into the course. Where research is to be conducted into equity matters in education, a supervisor will be provided.

Special Course Requirements

As a student proceeds through the four stages of the course, he or she will be required to submit a progress report to the Course Coordinator at the conclusion of each semester.

There is provision in the course structure for students to present their proposal and their research in progress to a research seminar. Such seminars will be held at regular intervals with the frequency depending on the number of research students. All students enrolled in this course are to attend such seminars to present their own work and to discuss and evaluate the work of their peers. Academic staff who are supervising research students are also expected to attend seminars on a regular basis.

Course Structure

STAGE 1: PREPARATION

Acquisition of knowledge of a range of appropriate research methods and in-depth knowledge of the research method to be used in the study; commencement of a comprehensive literature search.

During the preparation stage, students will complete the unit “EDN612 Conducting Educational Research” or a substitute approved by the Course Coordinator. Students who have undertaken prior study of an equivalent nature may apply for an exemption from this unit.

STAGE 2: PROPOSAL

Adoption of an appropriate research design for the proposed research; preparation of a comprehensive research proposal including a draft review of the literature; presentation and justification of the proposal to a seminar of other students and academic staff; trialling of research procedures.

The research proposal must be approved by the Course Coordination Committee before the student proceeds to the implementation stage.

STAGE 3: IMPLEMENTATION

Implementation of the research for the thesis; completion of the literature review.

STAGE 4: SUBMISSION

Completion and presentation of a thesis for approval by supervisor/s; production of the thesis in a suitable form for examination.

There will be no pre-specified completion times or credit points allocated to these stages as there is a large amount of variation in the time students take to move through the stages.

TRANSFER OF CREDIT

- (i) On the recommendation of the Course Coordinator, the Dean may grant credit for studies passed at an approved institution of higher education, provided that:
 - (a) the studies are of equivalent standard and value to those offered at the University
 - (b) the studies are appropriate to the candidate's work at the University
 - (c) the studies have not counted towards a previous qualification
 - (d) the studies are not included in those that have been designated as qualifying studies for the course.
- (ii) There shall be no maximum credit granted for units previously completed at this institution prior to enrolment in the Master of Education (Research) award.
- (iii) The maximum credit granted for studies passed elsewhere shall be the equivalent to one semester of full-time study.
- (iv) Credit may be granted for units passed elsewhere after enrolment in the Master of Education (Research) award, provided that the candidate has previously obtained the permission of the Dean to enrol in these units.
- (v) Where credit is granted the Dean may reduce proportionately the candidate's period of enrolment.
- (iv) A candidate who is re-enrolling following withdrawal or termination of candidature may be granted credit for previously successful studies by the Dean upon the recommendation of the Course Coordinator.

Thesis Project

- (i) The nature of the thesis research project must permit the candidate to demonstrate the acquisition of relevant research skills and their effective application to an investigation of genuine substance and significance.
- (ii) Early planning must allow for the submission of an approved initial unit enrolment form to the Registrar by the published due date.
- (iii) By no later than the end of the first semester a plan for the full program must be prepared and signed by the candidate and the Course Coordinator (who shall retain copies) and be lodged with the Registrar for endorsement by the Dean.
- (iv) The thesis must comprise a comprehensive, lucid and concise exposition on the context, objectives and conduct of the investigation and on its outcomes and their interpretation.

Supervision

Supervision in the Master of Education (Research) award consists of the supervision of a thesis. The thesis must be submitted to conform with format, style and other guidelines as set out in the publication Guide to Thesis Presentation which is available from Student Administration.

- (i) For each candidate undertaking a thesis project a Thesis Supervisor must be appointed. An appropriate Supervisor or supervisory team should be identified early in the

program when the thesis topic is chosen. An appointment will be made by the Dean on the advice of the Course Coordinator.

- (ii) Candidates should meet regularly with their Supervisor to discuss progress, submit drafts or progress reports or present seminars where appropriate at least each semester, and seek guidance as necessary.
- (iii) Supervisors should be readily available to candidates, should provide scholarly support and constructive criticism, and should assist as appropriate with access to facilities and any relevant external agencies.
- (iv) The Dean will not normally approve the appointment of any staff member as Thesis Supervisor to more than four candidates concurrently.
- (v) In special circumstances and with the specific approval of the Dean, an external Supervisor may be appointed.

Progression and Unsatisfactory Progress

PROGRESSION

In each semester of the candidature the academic progress of each candidate shall be reviewed by the Course Coordinator. Satisfactory progress for provisional candidates will consist of passing qualifying requirements or course units at the appropriate levels. For students enrolled in research studies, satisfactory progress will be judged by the submission of a report to the Course Coordinator. Progress reports will be submitted at designated intervals, normally at least twice each year.

UNSATISFACTORY PROGRESS

- (i) With respect to coursework studies, candidates who have failed two or more units or who have otherwise progressed unsatisfactorily may have their candidature terminated by the Dean.
- (ii) With respect to the thesis project, progress which is considered clearly unsatisfactory by both the Supervisor and the Course Coordinator may lead to a recommendation by them to the Dean that the candidate be excluded from the course.
- (iii) Before the Dean decides to terminate candidature, the candidate shall be given the opportunity to show cause why this action should not be taken.

Examination of the Thesis

SUBMISSION OF THESIS

- (i) A candidate should submit a minimum of three copies of a thesis to the Course Coordinator for examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners (if the thesis is otherwise acceptable to them) before final printing and binding.
- (ii) The thesis should be accompanied by a signed declaration that:
 - (a) the candidate has complied with the ethics of experimentation as set out in the publication *Guide to Thesis Presentation*
 - (b) the thesis is the candidate's own work and that all other sources are correctly acknowledged
 - (c) the thesis has not been submitted to another institution.

EXAMINATION OF THESIS

- (i) Each thesis will be examined by at least two examiners appointed by the Higher Degrees Advisory Committee on the recommendation of the Course Coordinator in consultation with the candidate and the Supervisor. Such appointments should be

LAN612	Principles of Second Language Methodology	12
LAN613	Second Language Curriculum Design Options	12
LAN614	Research Methods in Second Language Education	12

Year 1, Semester 2

Option 1

Elective Unit selected from List A	12
Elective Unit selected from List A	12
Elective Unit selected from List A	12
Elective Unit selected from List A	12

Option 2

Elective Unit selected from List A	12
Elective Unit selected from List A	12
EDN608/1 24 cp Dissertation/Project (Stage 1)	12
EDN608/2 24 cp Dissertation/Project (Stage 2)	12

Part-Time Course Structure

Year 1, Semester 1

LAN608	Second Language Acquisition	12	3
LAN612	Principles of Second Language Methodology	12	3

Year 1, Semester 2

Elective Unit selected from List A	12
Elective Unit selected from List A	12

Year 2, Semester 1

LAN613	Second Language Curriculum Design Options	12	3
LAN614	Research Methods in Second Language Education	12	3

Year 2, Semester 2

Option 1

Elective Unit selected from List A	12
Elective Unit selected from List A	12

Option 2

EDN608/1 24 cp Dissertation/Project (Stage 1)	12
EDN608/2 24 cp Dissertation/Project (Stage 2)	12

Intensive Mode

Block Session 1

LAN608	Second Language Acquisition	12
LAN612	Principles of Second Language Methodology	12
LAN614	Research Methods in Second Language Education	12
OR		
LAN617	Personalised Language Development	12

Block Session 2

LAN613	Second Language Curriculum Design Options	12
LAN615	Directed Reading in Second Language Education	12
LAN619	Discourse Analysis	12
OR		
LAN620	Language and Culture	12

Block Session 3

LAN616	Language Assessment & Program Evaluation in TESOL	12
LAN618	Technology and Second Language Learning OR	12
EDN608/1	24 cp Dissertation/Project (Stage 1)	12
EDN608/2	24 cp Dissertation/Project (Stage 2)	12

Elective List A

LAN615	Directed Reading in Second Language Education	12
LAN616	Language Assessment and Program Evaluation in TESOL	12

LAN617	Personalised Language Development	12
LAN618	Technology and Second Language Learning	12
LAN619	Discourse Analysis	12
LAN620	Language and Culture	12

GUIDELINES FOR A PROJECT

It is not essential for students who are completing a Project to adhere to the University guidelines on dissertations, although students may find these useful. See the course entry for Master of Education (ED13) for the guidelines on dissertations.

■ Graduate Diploma in Education (Computer Education) (ED21)

Location: Kelvin Grove campus

Course Duration: 2 years part-time internal or external

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Paul Shield

Entry Requirements

To be eligible for admission, an applicant must:

- hold an approved Bachelor Degree, Diploma of Teaching or equivalent
- have had at least one year's teaching experience.

External students will need to have access to a computer system which supports the languages Pascal (preferably Turbo Pascal), Logo, and PROLOG (preferably Turbo PROLOG), and which includes a disk drive and printer. Although some software resources are available for borrowing, external students will normally be expected to provide their own software.

It is highly desirable that external students have access to an IBM PC or compatible for at least some parts of the course.

Course Structure

To meet course requirements, students must complete four core units and four elective units. Elective units may be chosen from either List A or List B.

The following units are scheduled in Semester 1

		Credit Points	Contact Hrs/Wk
MDP532	Computer Systems in an Educational Context (core)	12	3
MDP537	Major Issues in Computer Education (core)	12	3

List A: Elective Units

MDP507	Teaching Secondary Computer Studies	12	3
MDP530	Computer Applications in Education	12	3
MDP533	Teaching Information Systems Modelling	12	3
MDP536	Computer Graphics in Teaching	12	3

The following units are scheduled in Semester 2

MDP503	Information Systems in Education (core)	12	3
MDP506	Computer Education Project (core)	12	3

Note: Four units must be completed at a grade of 4 or above before MDP506 can be undertaken.

Graduate Diploma in Education (Computer Education) Sequences of Study Options

MODE	YEAR 1		YEAR 2	
	Semester 1	Semester 2	Semester 1	Semester 2
Secondary Computer Studies	MDP532 Computer Systems in an Education Context MDP537 Major Issues in Computer Education	MDP503 Information Systems in Education MDP535 Educational Software Development	MDP533 Teaching Information System Modelling MDP507 Teaching Secondary Computer Studies	MDP506 Computer Education Project MDP534 Educational Applications of Artificial Intelligence
Secondary General	MDP530 Computer Applications in Education MDP537 Major Issues in Computer Education	MDP503 Information Systems in Education MDP531 Investigations into Computer Aided	MDP532 Computer Systems in an Educational Context MDP536 Computer Graphics in Teaching	MDP506 Computer Education Project MDP504 School Administration Using Information Technologies
Primary	MDP530 Computer Applications in Education MDP537 Major Issues in Computer Education	MDP503 Information Systems in Education MDP508 Computer Use in the Primary Curriculum	MDP532 Computer Systems in an Educational Context MDP536 Computer Graphics in Teaching	MDP506 Computer Education Project MDP504 School Administration Using Information Technologies
TAFE	MDP532 Computer Systems in an Educational Context MDP530 Computer Applications in Education	MDP503 Information Systems in Education MDP535 Educational Software Development	MDP537 Major Issues in Computer Education and either MED536 Computer Graphics in Teaching OR MDP583 Teaching Information System Modelling	MDP506 Computer Education Project MDP531 Investigations into Computer Aided Learning

List B: Elective Units (2 to be chosen)

MDP504	School Administration using Information Technology	12	3
MDP508	Computer Use in the Primary Curriculum	12	3
MDP531	Investigations into Computer Aided Learning	12	3
MDP534	Educational Applications of Artificial Intelligence	12	3
MDP535	Educational Software Development	12	3

Some possible sequences of study are given below. Other sequences are possible within the prerequisite structure of the course. It is suggested that those applicants with little knowledge of computing do MDP530 in their first semester.

It is suggested that those applicants with little knowledge of computing do the elective unit MDP530 Computer Applications in Education in their first semester. Normally MDP530 may only be attempted in the first semester of the first year of study. Students in other than their first year of study will only be allowed to undertake MDP530 with the explicit approval of the Course Coordinator.

■ Graduate Diploma in Education (Curriculum) (ED22)

Course Discontinued: This course is being phased out and there will be no further intakes.

Location: Kelvin Grove and/or Carseldine campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Roy Ballantyne

Entry Requirements

To be eligible for entry an applicant must:

- hold an approved diploma or degree (or equivalent)
- have had at least one year's teaching experience
- have successfully completed some studies in the specialisation area of their choice.

Course Structure

Credit Points **Contact Hrs/Wk**

Course Core Units

CUP501	Curriculum Foundations	12	3
CUP502	Curriculum Development & Innovation	12	3

Elective Units**ADULT LITERACY**

LAP521	Program Development, Implementation & Assessment in Adult Literacy	12	3
LAP522	Specific Groups of Adult Literacy Learners	12	3
LAP523	Understanding Adult Literacy	12	3
LAP524	Teaching & Learning in Adult Literacy	12	3
LAP525	Issues in Language Learning	12	3
LAP526	Independent Project in Adult Literacy	12	3

ART EDUCATION

AAB455	Computer Graphics 1	12	3
AAB447	Drawing	12	3
AAB457	Sculpture 1	12	3
AAB459	Visual Arts Design 1	12	3
AAB460	Visual Arts Design 2	12	3
AAB720	Extended Media Study 1	12	3

AAB721	Extended Media Study 2	12	3
AAP501	Art Curriculum Foundations	12	3
AAP502	Art Education Program Design & Practice	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3
ARTS IN EARLY CHILDHOOD			
AAB117	Dance in Education	12	3
AAB202	Acting 1	12	4
AAB203	Acting 2	12	4
AAB447	Drawing	12	3
AAB455	Computer Graphics 1	12	3
AAB457	Sculpture 1	12	3
AAB720	Extended Media Studies 1	12	3
AAB721	Extended Media Studies 2	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3
EAP551	Dance Education in Early Childhood	12	3
EAP552	From Play to Drama in Early Childhood Education	12	3
EAP553	Music in Early Childhood Education	12	3
EAP554	The Artistic Process & the Visual Arts in Early Childhood Education	12	3
BUSINESS EDUCATION			
SBP506	Curriculum Issues in Business Education	12	3
SBP507	Business Organisation & Management Education 1	12	3
SBP508	Business Organisation & Management Education 2	12	3
SBP509	Issues in Legal Education	12	3
SBP510	Issues in Office Communication Technology Education	12	3
SBP511	Issues in Accounting Education	12	3
ENVIRONMENTAL EDUCATION			
SBP500	Curriculum Issues in Environmental Education 1	12	3
SBP501	Curriculum Issues in Environmental Education 2	12	3
SBP502	Ethics & Economics in Environmental Education	12	3
SBP503	Natural Environmental Education Issues	12	3
SBP504	Practical & Fieldwork in Environmental Education	12	3
SBP505	Social Environmental Education Issues	12	3
HUMAN RELATIONSHIPS EDUCATION			
CPP510	Socio-cultural Contexts of Human Relationships Education	12	3
HUP001	Ethics & Human Relationships Education	12	3
LEP515	Human Sexuality & Learning	12	3
LEP518	Human Relationships Across the Lifespan	12	3
LEP519	Interpersonal & Professional Relationships 1	12	3
LEP522	Interpersonal & Small Group Teaching Strategies	12	3
MATHEMATICS/SCIENCE EDUCATION			
MDP520	Thinking & Learning in Mathematics & Science	12	3
MDP540	Mathematics for Schools	12	3
MDP541	Science for Schools	12	3
MDP542	History of Mathematics & Science	12	3
MDP543	Curriculum Specialisation in Mathematics & Science	12	3
MDP544	Leadership in Mathematics & Science Education	12	3
MDP545	Exceptionality in Mathematics & Science	12	3

■ Graduate Diploma in Education (Early Childhood) (ED20)

Location: Kelvin Grove campus

Course Duration: 2 years external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Nicola Yelland

Entry Requirements

To be eligible for admission, an applicant must hold the following:

- (i) an appropriate degree, diploma or equivalent, and
- (ii) at least one year's teaching experience, and
- (iii) current teacher registration.

Special Course Requirements

Students should note that there is a compulsory period of two weeks' practice teaching (or more, according to Individual Teaching Experience Profiles) with children in the early childhood age range, to be undertaken at the completion of the first four units of the course. Students employed as teachers need to complete these practice periods during school holidays in a specially organised setting. A further compulsory period of two weeks with children in the early childhood age range is held toward the end of the course to provide opportunities for extending practical knowledge of program design and evaluation. Some students may need to undertake this practicum during school holidays.

Course Structure

Credit Points

Year 1, Semester 1

EAP528	Change in Children Birth to Age Eight	12
EAP529/1	Early Childhood Education 1 & 2	6

Year 1, Semester 2

EAP529/2	Early Childhood Education 1 & 2	6
EAP530	The Context of Early Childhood Education	12
EDP508	Practicum in Early Childhood 1 ³	6

Summer School

EDP508	Practicum in Early Childhood 1 ³	6
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Year 2, Semester 1

EAP526	Early Childhood Education 3	12
EAP531	Research in Early Childhood	12

Year 2, Semester 2

EAP525	Early Childhood Program Planning	12
EAP532	Transactions in Early Childhood Education	12
EDP509	Practicum in Early Childhood 2 ³	6

Summer School

EDP509	Practicum in Early Childhood 2 ³	6
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Special note for students who commenced the course prior to 1994

Students who commenced the Graduate Diploma in Education (Early Childhood) course prior to 1994 and have not yet completed course requirements should contact the Course Coordinator or the Faculty of Education Office for advice on an enrolment program.

³ EDP508 Practicum in Early Childhood 1 and EDP509 Practicum in Early Childhood 2 are offered in Semester 2 or Summer School.

■ Graduate Diploma in Education (Educational Management) (ED23)

Location: Kelvin Grove campus (some units may be provided at Gardens Point campus)

Course Duration: 2 years part-time or external

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Dr Nadine McCrea

Entry Requirements

To be eligible an applicant must have:

- (i) an appropriate teaching/education or other relevant qualification at diploma, degree or graduate diploma level
- (ii) at least one year experience in an educational setting.

Applicants who do not meet the requirements for normal entry may present documentary evidence of experience and abilities with the standard application form.

Applicants may be selected for interview prior to an offer being made.

		Credit Points	Contact Hrs/Wk
Part-time Course Structure (Internal)			
Year 1, Semester 1			
EAP512	Policies & Practices in Educational Management	12	3
HRN104	Introduction to Management	12	3
Year 1, Semester 2			
EAP513	Educational Services Management	12	3
	Elective unit selected from Lists A-C	12	3
Year 2, Semester 1			
AYB100	Accounting for Managers	12	3
	Elective unit selected from Lists A-C	12	3
Year 2, Semester 2			
EDP514	Field Project	12	3
	Elective unit selected from Lists A-C	12	
	OR		
EDP516	Extended Field Project ⁴	24	

Elective Units

Note: Only one List B elective unit can be chosen for entire course.

Semester 1

List A: Educational Management Elective Units (Faculty of Education)

CUB444	Educators & the Law	12	3
EAP515	Human Resource Management in Education	12	3
EDB440	Independent Study ⁵	12	
LEB480	Research Methods in Education	12	3

⁴ Students wishing to complete an Extended Field Project (24 credit points) must negotiate with the course coordinator prior to enrolment.

⁵ The unit EDB440 Independent Study may be taken once only. An Independent Study Guide and application are available from the Faculty of Education Office.

List B: Business Elective Units (Faculty of Business)

HRB135	Small Business Management (Gardens Point)	12	3
HRN108	People in Organisations (Gardens Point)	12	3
MKB140	Principles of Marketing (Gardens Point)	12	3

Semester 2**List A: Educational Management Elective Units (Faculty of Education)**

CPB440	The Community & School Administration	12	3
CPB445	Career & Life Patterns of Women Teachers	12	3
CUB444	Educators & the Law	12	3
EAB440	Working with Parents & the Community	12	3
EAP500	Early Childhood Leadership & Advocacy	12	3
EDB440	Independent Study ⁶	12	
LEB480	Research Methods in Education	12	3

List B: Business Elective Units (Faculty of Business)

HRN105	Labour – Management Relations (Gardens Point)	12	3
HRB135	Small Business Management (Gardens Point & Kedron Park)	12	3
MKP102	Entrepreneurship (Kedron Park)	12	3

List C: Other Elective Unit

One unit may be negotiated with the Course Coordinator.

Part-time Course Structure (External)

The external mode has six core units and one or two elective units, depending on the size (12 or 24 cp) of a students' field project. These units are offered by the Faculty of Education.

Year 1, Semester 1

		Credit Points
EAP512	Policies and Practices in Educational Management	12
EAP518	Managing the Curriculum	12

Year 1, Semester 2

EAP513	Educational Services Management	12
	Elective Unit selected from List D	12

Year 2, Semester 1

EAP515	Human Resource Management in Education	12
SBP517	Financial Management in Education Settings	12

Year 2, Semester 2

EDP514	Field Project and Elective Unit selected from List D	12 12
	OR	
EDP516	Extended Field Project	24

List D: Electives

Choose 1 or 2 of the following:

CPB440	The Community and School Administration	12
EAB440	Working with Parents and the Community	12
EAP500	Early Childhood Leadership and Advocacy	12
EDB440	Independent Study (Guide available from Faculty of Education)	12
LEB480	Research Methods in Education	12

⁶ The unit EDB440 Independent Study may be taken twice: once in a small group / cohort arrangement and once individually to extend the Field Project. An Independent Study Guide and application are available from the Faculty of Education Office.

■ Graduate Diploma in Education (Resource Teaching) (ED24)

Location: Kelvin Grove campus

Course Duration: 1 year full-time, 2 years part-time or external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an appropriate degree or Diploma of Teaching (or equivalent)
- (ii) have a minimum of two years successful teaching experience
- (iii) be recommended by their employing authority as having general personal suitability to fulfil the resource/support teacher duties.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LEB480	Research Methods in Education	12	3
LEP523	Learners with Special Needs	12	3
LEP525	Remediating Learning Difficulties	12	3
MDP529	Assessment & Remediation in Mathematics	12	3
Year 1, Semester 2			
CPP501	Socio-cultural Issues in Education	12	3
CUP503	Curriculum: Learners with Special Needs	12	3
LEP524	Developing Relationships & Groups	12	3
LEP526	Study Skills, Literacy & Learning	12	3

If numbers are insufficient to offer full-time day classes, students will be able to study the course by a combination of evening and external study within one year.

Part-Time (Evening and External) Course Structure

While all units are to be offered each year, students studying in the part-time and external modes are advised to enrol in the two-year cycle shown below if seeking to complete the course in minimum time. Those not pursuing course completion in minimum time may choose appropriate units as available.

Year 1, Semester 1			
LEP525	Remediating Learning Difficulties	12	3
MDP529	Assessment & Remediation in Mathematics	12	3
Year 1, Semester 2			
LEP524	Developing Relationships & Groups	12	3
LEP526	Study Skills, Literacy & Learning	12	3
Year 2, Semester 1			
LEB480	Research Methods in Education	12	3
LEP523	Learners with Special Needs	12	3
Year 2, Semester 2			
CPP501	Socio-cultural Issues in Education	12	3
CUP503	Curriculum: Learners with Special Needs	12	3

■ Graduate Diploma in Education (Teacher-Librarianship) (ED25)

Location: Kelvin Grove campus

Course Duration: 2 years part-time or external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Geoff Chapman

Entry Requirements:

To be eligible for admission, an applicant must:

- (i) hold an appropriate degree, diploma or equivalent qualification, including an approved teaching qualification
- (ii) have had proven satisfactory teaching experience, normally at least three years in the last ten
- (iii) have personal suitability. Personal suitability is determined on the basis of a 750 word statement and referees' reports.

Professional Recognition

The course is recognised by the Australian Library and Information Association as a specialist professional qualification.

Special Course Requirements

The course is offered by evening classes and external study. It may be completed in combinations of evening/external or fully external with some study schools. It is possible for students to complete the entire course in one mode or a combination of modes.

To meet course requirements students must complete satisfactorily six compulsory core units and two elective units.

All students will undertake the fieldwork components of the first four core units. Activities, timing and placements will be negotiated according to personal and geographical circumstances.

Course Structure

Full-Time, Part-Time, (during the day and/or evening) or External

**Credit
Points**

**Contact
Hrs/Wk**

The course comprises six core units and two elective units.

Semester 1

Core Units

LAP501	Foundations of Teacher-Librarianship	12	3
LAP502	Curriculum & Related Resources	12	3
LAP503	Literature & Literacy: Resources & Strategies	12	3
LAP504	School Library Resources: Organisation & Access	12	3
LAP505	Communication & Management in School	12	External
LAP506	Library Resource Centres (Prerequisite LAP501)	12	External
	Information Services for Schools (Prerequisite LAP502)	12	External

Elective Units

ISP811	Books & Publishing	(List A)	12	External
LAP509	Directed Study	(List C)	12	
LAP513	Media Literacy & the School	(List B)	12	External
LAP515	Resource Services for Special Needs	(List A)	12	External
LAP517	Storytelling	(List A)	12	3 (Evening)

Semester 2

Core Units

LAP501	Foundations of Teacher-Librarianship	12	External ⁷
LAP502	Curriculum & Related Resources	12	3 (Evening)
LAP503	Literature & Literacy: Resources & Strategies	12	3 (Evening)
LAP504	School Library Resources: Organisation & Access	12	External ⁷
LAP505	Communication & Management in School		
	Library Resource Centres (Prerequisite LAP501)	12	External
LAP506	Information Services for Schools (Prerequisite LAP502)	12	External ⁷

Elective Units

ISP811	Books & Publishing	(List A)	12	External
LAP507	Australian Literature for Young People	(List A)	12	External
LAP509	Directed Study	(List C)	12	
LAP512	Literature for Young People	(List A)	12	External
LAP518	Visual Literacy & Resource Design	(List B)	12	External

Elective Unit List

Elective units provide opportunities for students to extend their competence in specialised areas falling within overall course objectives.

These elective units are offered over four semesters:

List A: Literature/Resources

ISP811	Books & Publishing	12	External
LAP507	Australian Literature for Young People	12	External
LAP511	Literacy Education & Libraries	12	External
LAP512	Literature for Young People	12	External
LAP515	Resource Services for Special Needs	12	3 or External
LAP517	Storytelling	12	3
LAP518	Visual Literacy & Resource Design	12	External

List B: Systems/Management/Communication

LAP510	Interactive Technologies in Instruction	12	External
LAP513	Media Literacy & the School	12	External
LAP514	Reference Services & Materials	12	External

List C

LAP509	Directed Study	12	
LAP516	Special Seminar	12	May vary

Note: Students may select elective units from the Graduate Diploma in Library Science and from other University courses as approved by the Course Coordinator.

■ Graduate Diploma in Education (Pre-service) Early Childhood (ED35) Graduate Diploma in Education (Pre-service) Primary (ED36) Graduate Diploma in Education (Pre-service) Secondary (ED37)

Location: Kelvin Grove campus (some unit areas are located at Carseldine and Gardens Point campuses)

Course Duration: 1 year full-time, 2 years part-time (ED37 science and music only)

Total Credit Points: 96

Course Coordinator: Dr Ian Macpherson

⁷ Compulsory Study School.

Associate Course Coordinators

Early Childhood – Dr Sue Grieshaber

Primary – Dr Jenny Campbell

Secondary – Dr Jillian Brannock

General Entry Requirements

To be eligible for consideration, applicants:

- (i) must have at least an undergraduate degree or equivalent from a recognised tertiary institution
- (ii) must have proficiency in English as determined by University requirements.

Additional Entry Requirements – Secondary

Students select two areas of specialisation within Curriculum Studies. The specialisation through which entry to the course is sought is designated the major area (Curriculum A); the other specialisation is designated the minor area (Curriculum B). See details of the specialisations below.

For entry to the two selected specialisations, students need to have completed tertiary studies relevant to the specialisations, as follows:

- ☐ for the major curriculum area – at least one-third of an undergraduate course
- ☐ for the minor curriculum area – at least one-sixth of an undergraduate course.

In some of the curriculum areas, additional Entry Requirements may apply, for example:

- ☐ level of attainment in the relevant tertiary studies
- ☐ range and/or depth of relevant tertiary studies
- ☐ other aspects of suitability, as assessed through interview, audition (Drama, Dance, Music) or presentation of folio of work (Visual Arts).

Course Structure

Students complete 24 credit points of Education Studies and 72 credit points of Curriculum Studies which incorporates Professional Practice.

EARLY CHILDHOOD – ED35

Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
CPP411/1	Understanding Education in Contemporary Australia	6	3
EAP411	Creativity & Language 1	12	4
EAP412	Thinking & Problem Solving 1	12	4
EAP413	Program Planning & Teaching Strategies 1	12	3
LEP413/1	Human Development & Learning	6	3

Professional Practice Component

This component of the unit Program Planning and Teaching Strategies 1 provides students with first-hand experience in a range of early childhood settings, including child care centres, kindergartens, preschools and lower primary. Emphasis is placed on observation, planning, implementing, evaluating and record-keeping.

Contact: 3 single days and 2 x 2 week block sessions; 1 week of field experience in conjunction with on-campus component.

Year 1, Semester 2

CPP411/2	Understanding Education in Contemporary Australia	6	3
EAP416	Creativity & Language 2	12	4
EAP417	Thinking & Problem Solving 2	12	4
EAP418	Program Planning & Teaching Strategies 2	12	3
LEP413/2	Human Development & Learning	6	3

Professional Practice Component

This component of the unit Program Planning and Teaching Strategies 2 provides students with first hand experience in a range of early childhood settings, including child care centres, kindergartens, preschools and lower primary. Emphasis is placed on observation, planning, implementing, evaluating, administration, parent programs and record-keeping.

Contact: 2 single days and 2 x 3 week block sessions

PRIMARY – ED36

Year 1, Semester 1

CPP411/1	Understanding Education in Contemporary Australia	6	3
CUP420	Professional & Curriculum Studies 1	12	3
LAP440	Language & Literacy 1	12	3
LEP413/1	Human Development & Learning	6	3
MDP450	Mathematics, Science & Technology 1	12	3

Professional Practice Component

Orientation to the primary school. Planning, implementation and lesson closure: teaching tasks of increasing complexity from micro-teaching to full-scale responsibility for planning, implementing, closing a lesson. Initiative and individuality in lesson, module and unit planning and implementation.

Contact: 5 single Thursdays and a 4 week block session

Year 1, Semester 2

CPP411/2	Understanding Education in Contemporary Australia	6	3
CUP421	Professional & Curriculum Studies 2	12	3
LAP441	Language & Literacy 2	12	3
LEP413/2	Human Development & Learning	6	3
MDP451	Mathematics, Science & Technology 2	12	3

Professional Practice Component

Knowledge gained from in-depth contextual studies and curriculum and professional studies is used to prepare a total program of work. This is fully implemented in a final two weeks of practice. School and community domains are also studied in preparation for beginning teaching.

Contact: 5 single Thursdays and a 5 week block session

SECONDARY – ED37

Year 1, Semester 1

CPP411/1	Understanding Education in Contemporary Australia	6	3
CUP405	Teaching Studies (to be taken in association with Curriculum major)	12	3
LEP413/1	Human Development & Learning	6	3
	Curriculum Studies 1A Unit	12	3
	Curriculum Studies 1B Unit	12	3

Professional Practice Component

Orientation to the secondary school. Planning, teaching and evaluation: developing responsibility first for teaching single lessons and subsequently for a series of lessons. Interpersonal relations: relating effectively to students as learners and teachers as colleagues.

Contact: 5 week block session

Year 1, Semester 2

CPP411/2	Understanding Education in Contemporary Australia	6	3
LEP413/2	Human Development & Learning	6	3
	Curriculum Studies 2A Unit	12	3
	Curriculum Studies 2B Unit	12	3
	Career Elective Unit	12	3

Graduate Diploma in Education (Pre-service) Course Structure

	AREA OF STUDY						
STRAND	EARLY CHILDHOOD		PRIMARY		SECONDARY		TOTAL
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
EDUCATION STUDIES	Understanding Education in Contemporary Australia (12) Human Development & Learning (12)		Understanding Education in Contemporary Australia (12) Human Development & Learning (12)		Understanding Education in Contemporary Australia (12) Human Development & Learning (12)		24
PROFESSIONAL PRACTICE	Field Experience (1 week) Practice Teaching (4 weeks)	Practice Teaching (6 weeks)	Field Experience (1 week) Practice Teaching (4 weeks)	Practice Teaching (6 weeks)	Practice Teaching (4 weeks) Field Experience (1 week)	Practice Teaching (6 weeks)	
CURRICULUM STUDIES	Creativity & Language 1 (12) Thinking & Problem Solving 1 (12) Program Planning & Teaching Strategies 1 (12)	Creativity & Language 2 (12) Thinking & Problem Solving 2 (12) Program Planning & Teaching Strategies 2 (12)	Language & Literacy 1 (12) Maths, Science & Technology 1 (12) Professional & Curriculum Studies 1 (12)	Language & Literacy 2 (12) Maths, Science & Technology 2 (12) Professional & Curriculum Studies 2 (12)	Curriculum Studies Unit 1A (12) Curriculum Studies Unit 1B (12) Teaching Studies (12)	Curriculum Studies Unit 2A (12) Curriculum Studies Unit 2B (12) Career Elective Unit (12)	72
TOTAL	48	48	48	48	48	48	96

Professional Practice Component

Knowledge gained from indepth contextual studies and curriculum and professional studies is used to prepare, teach, and evaluate units of work. Key foci of the study of school and community domains include social justice and equity policies. Foci on schools, school and classroom management programs, situated knowledge base on beginning teacher.

Contact: 6 week block session

Part-Time Course Structure (Science and Music only)

(This offering is subject to viability)

Year 1, Semester 1

CUP406/1	Teaching Studies (to be taken in association with Curriculum major)	6	3
LEP413/1	Human Development & Learning	6	3
	Curriculum Studies 1A Unit	12	3

Year 1, Semester 2

CUP406/2	Teaching Studies (to be taken in association with Curriculum major)	6	3
LEP413/2	Human Development & Learning	6	3
	Curriculum Studies 1B or 2A Unit	12	3

Year 2, Semester 1

CPP412	Understanding Education in Contemporary Australia	12	3
	Curriculum Studies 2A or 1B Unit	12	3

Year 2, Semester 2

	Curriculum Studies 2B Unit	12	3
	Career Elective Unit	12	3

Professional Practice Component

Program details are as per the full-time course outline. It is also anticipated that students will undertake practice blocks according to the full-time calendar. In cases where this is not feasible the situation may be negotiated.

Curriculum Studies Units – 1A and 1B

In Semester 1, students choose two curriculum units. The two must be selected from two different groups, as listed below. The unit selected as the student's major area of study is designated Curriculum 1A, and as the minor area, Curriculum 1B.

Note: Curriculum unit Music 1A is available only to students choosing Music 1 as their other curriculum unit. This constitutes a double major in Music.

GROUP 1

AAP422	Drama Curriculum Studies 1	12	3
LAP403	LOTE Curriculum Studies 1 ⁸	12	3
SBP401	Accounting Curriculum Studies 1	12	3

GROUP 2

AAP421	Dance Curriculum Studies 1	12	3
AAP434	Music Curriculum Studies 1A	12	3
MDP407	Senior Science Curriculum Studies 1	12	3
SBP403	Economics Curriculum Studies 1	12	3

GROUP 3

AAP424	Visual Arts Curriculum Studies 1	12	3
LAP409	Primary LOTE Curriculum Studies 1 ⁹	12	3
MDP403	Mathematics Curriculum Studies 1	12	3
SBP409	Legal Studies Curriculum Studies 1	12	3

⁸ Offered as a major only.

⁹ Offered as a minor only.

GROUP 4			
AAP423	Music Curriculum Studies 1	12	3
HMP401	Physical Education Curriculum Studies 1	12	3
PUP430	Home Economics Curriculum Studies 1	12	3
SBP407	History Curriculum Studies 1	12	3
GROUP 5			
LAP405	Film & Media Curriculum Studies 1	12	3
LAP407	English as a Second Language Curriculum Studies 1	12	3
MDP405	Computer Education Curriculum Studies 1	12	3
SBP405	Geography Curriculum Studies 1	12	3
GROUP 6			
HMP403	Health Education Curriculum Studies 1 ⁹	12	3
LAP401	English Curriculum Studies 1	12	3
MDP401	Junior Science Curriculum Studies 1	12	3
SBP411	Office Communications Technology Curriculum Studies 1	12	3

Curriculum Studies Units – 2A and 2B

In Semester 2, students select two curriculum units corresponding to their selections in Semester 1. These are designated Curriculum 2A and Curriculum 2B.

Except in the case of Senior Science, students select the Curriculum 2 units matching the Curriculum 1 units for Semester 1. Students who select Senior Science in Semester 1 must choose one of the Senior Science units listed in Semester 2.

		Credit Points	Contact Hrs/Wk
GROUP 1			
AAP430	Drama Curriculum Studies 2	12	3
LAP404	LOTE Curriculum Studies 2	12	3
SBP402	Accounting Curriculum Studies 2	12	3
GROUP 2			
AAP429	Dance Curriculum Studies 2	12	3
AAP433	Music Curriculum Studies 2A	12	3
MDP408	Senior Agriculture Curriculum Studies 2	12	3
MDP409	Senior Biology Curriculum Studies 2	12	3
MDP410	Senior Chemistry Curriculum Studies 2	12	3
MDP411	Senior Earth Science Curriculum Studies 2	12	3
MDP412	Senior Marine Studies Curriculum Studies 2	12	3
MDP413	Senior Physics Curriculum Studies 2	12	3
SBP404	Economics Curriculum Studies 2	12	3
GROUP 3			
AAP432	Visual Arts Curriculum Studies 2	12	3
LAP410	Primary LOTE Curriculum Studies 2 ⁹	12	3
MDP404	Mathematics Curriculum Studies 2	12	3
SBP410	Legal Studies Curriculum Studies 2	12	3
GROUP 4			
AAP431	Music Curriculum Studies 2	12	3
HMP402	Physical Education Curriculum Studies 2	12	3
PUP431	Home Economics Curriculum Studies 2	12	3
SBP408	History Curriculum Studies 2	12	3
GROUP 5			
LAP406	Film & Media Curriculum Studies 2	12	3
LAP408	English as a Second Language Curriculum Studies 2	12	3
MDP406	Computer Education Curriculum Studies 2	12	3
SBP406	Geography Curriculum Studies 2	12	3

⁹ Offered as a minor only.

GROUP 6			
HMP404	Health Education Curriculum Studies 2	12	3
LAP402	English Curriculum Studies 2	12	3
MDP402	Junior Science Curriculum Studies 2	12	3
SBP412	Office Communications Technology Curriculum Studies 2	12	3

Career Elective Units

Career Elective Units must be chosen from the following list.

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	School-Community Relations	12	3
CPB333	Policymaking & Changing School Practices	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
CUB367	Managing Learners	12	3
EDB440	Independent Study ⁵	12	
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3
LEB337	Gifted Learners	12	3
LEB441	Education Counselling	12	3
LEB480	Research Methods in Education	12	3
MDB300	Teaching in the Information Age	12	3

■ Graduate Certificate in Education (ED61-ED75)

Location: Kelvin Grove and Gardens Point campuses

Course Duration: 1 year part-time internal or external

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$600 per 12 credit point unit (\$50 per credit point)

Course Coordinator: Dr Alan Cook

Entry Requirements

The entry requirements for the following areas of interest:

- ☐ **Computing, Mathematics and Science Education**
- ☐ **Education Policy**
- ☐ **Leadership**

are the same as for ED13 Master of Education.

The entry requirements for the following areas of interest:

- ☐ **Accounting/Business Education**
- ☐ **Adult Literacy Education**
- ☐ **Human Relationships Education**
- ☐ **Mathematics Education**
- ☐ **Science Education**

are that the student must:

⁵ The unit EDB440 Independent Study may be taken once only. An Independent Study Guide and application are available from the Faculty of Education Office.

- (i) possess an appropriate degree or diploma or equivalent (as determined by the Course Coordinator); AND
- (ii) have a minimum of one year's experience in a relevant professional field or other similar experience;
- (iii) have successfully completed some studies in the specialisation area of their choice.

The entry requirements for the following areas of interest:

- ☐ **Advanced Skills Teacher**
- ☐ **Curriculum Development**
- ☐ **Equity Policy**

are the same as for ED26 Bachelor of Education (In-service).

The entry requirements for the areas of interest:

- ☐ **Computer Education**

are the same as for ED21 Graduate Diploma in Education (Computer Education).

The entry requirements for the areas of interest:

- ☐ **Resource Teaching**

are the same as for ED24 Graduate Diploma in Education (Resource Teaching).

The entry requirements for the areas of interest:

- ☐ **Education Management**

are the same as for ED23 Graduate Diploma in Education (Educational Management).

The entry requirements for the areas of interest:

- ☐ **Higher Education**

are that the student must:

- (i) hold at least a first degree in a discipline or professional area;
- (ii) be currently teaching in higher education;
- (iii) normally, have no formal preparation or qualification in education.

Course Structure

The Graduate Certificate in Education course consists of 48 credit points of units (usually 4 units) from a postgraduate course within the Faculty of Education deemed by the Dean of the Faculty to form a coherent program of study.

Units within the Graduate Certificate in Education course can be presented in standard, modularised and block form. In standard form, that is normal part-time mode, the units are offered over the normal teaching semester with three to four hours a week set aside for lectures, workshops, seminars, and/or tutorials. Assessment is included in the program and is completed by the end of the examination weeks.

The modules are designed to be attractive to teachers, schools and regions. Possible lengths and forms are one- and two-day seminars, afternoon workshops, one- and two-week blocks, workplace-based sessions, and workplace study groups.

The block form of delivery allows units to be taken by students whose workplace prevents normal part-time attendance. The lecture contact is reduced to one or two blocks (normally two or three weeks of length in total) of intensive study. This study period or 'school' is preceded by reading and followed by an independent study leading to the preparation of assessment. For teachers, the blocks will commonly occur in holiday time.

		Credit Points	Contact Hrs/Wk
COMPUTING, MATHEMATICS AND SCIENCE EDUCATION (ED61)			
School of Mathematics, Science and Technology Education			
Choose four of the following:			
EDN601	Major Issues in Education	12	
EDN611	Understanding Educational Research	12	
EDN612	Conducting Educational Research	12	
MDN615	Curriculum Studies in Mathematics, Science or Technology Education	12	
MDN616	Pedagogy in Mathematics, Science or Technology Education	12	3
MATHEMATICS EDUCATION (ED62)			
School of Mathematics, Science and Technology Education			
Choose four of the following:			
MDB442	Quantitative Literacy	12	3
MDP520	Thinking & Learning in Mathematics & Science	12	3
MDP540	Mathematics for Schools	12	3
MDP543	Curriculum Specialisation in Mathematics & Science	12	3
MDP545	Exceptionality in Mathematics & Science	12	3
CURRICULUM DEVELOPMENT (ED63)			
School of Curriculum and Professional Studies			
CUB410	Teachers & the Curriculum	12	3
CUB413	Curriculum, Making it Happen at School	12	3
CUB436	Analysing Educational Practice	12	3
CUB444	Educators & the Law	12	3
ADVANCED SKILLS TEACHER (ED64)			
School of Curriculum and Professional Studies			
CUB431	Classroom Management: Models & Practice	12	3
CUB433	Teaching Strategies	12	3
CUB435	Facilitating Professional Development & Institutional Change	12	3
CUB443	Classroom Assessment Practices	12	3
EDUCATIONAL MANAGEMENT (ED65)			
School of Early Childhood			
EAP512	Policies & Practices in Educational Management		
Choose three of the following:			
CPB440	The Community & School Administration	12	3
EAP500	Early Childhood Leadership & Advocacy	12	3
EAP513	Educational Services Management	12	3
EAP515	Human Resource Management in Education	12	3
ADULT LITERACY EDUCATION (ED66)			
School of Language and Literacy Education			
LAP521	Program Development, Implementation & Assessment in Adult Literacy	12	3
LAP522	Specific Groups of Adult Literacy Learners	12	3
LAP523	Understanding Adult Literacy	12	3
LAP524	Teaching & Learning in Adult Literacy	12	3
HUMAN RELATIONSHIPS EDUCATION (ED67)			
School of Learning and Development			
Choose four of the following:			
CPP510	Socio-cultural Contexts of Human Relationships Education	12	3
HUP001	Ethics & Human Relationships Education	12	3
LEP515	Human Sexuality & Learning	12	3

LEP516	Human Sexuality & Development	12	3
LEP518	Human Relationships across the Lifespan	12	3
LEP519	Interpersonal & Professional Relationships I	12	3
LEP522	Interpersonal & Small Group Teaching Strategies	12	3
HIGHER EDUCATION (ED68)			
Academic Staff Development Unit (Gardens Point campus)			
EDP601	The Reflective Practitioner in Higher Education	12	3
EDP602	Adult Learning & Teaching in Higher Education	12	3
EDP603	Higher Education in Australia: Context & Issues	12	3
EDP604	Program Design & Evaluation in Higher Education	12	3
ACCOUNTING/BUSINESS EDUCATION (ED69)			
School of Social Business and Environmental Education			
Choose four of the following:			
SBB410	Consumer Education	12	3
SBP506	Curriculum Issues in Business Education	12	3
SBP507	Business Organisation & Management Education 1	12	3
SBP508	Business Organisation & Management Education 2	12	3
SBP511	Issues in Accounting Education	12	3
COMPUTER EDUCATION (ED70)			
School of Mathematics, Science and Technology Education			
MDP508	Computer Use in the Primary Curriculum	12	3
MDP530	Computer Applications in Education	12	3
MDP536	Computer Graphics in Teaching	12	3
MDP537	Major Issues in Computer Education	12	3
POLICY (ED71)			
School of Cultural and Policy Studies			
Choose four of the following:			
CPN607	Global Change, Diversity in Education	12	
CPN608	Gender Equity & Education Policy	12	
CPN610	Youth Policies & Post-Compulsory Education	12	
EDN601	Major Issues in Education	12	
EDN611	Understanding Educational Research	12	
EQUITY POLICY (ED72)			
School of Cultural and Policy Studies			
Choose four of the following:			
CPB442	Education for a Multicultural Society	12	3
CPB443	Comparative & International Education	12	3
CPB444	Issues in Aboriginal Education	12	3
CPB445	Career & Life Patterns of Women Teachers	12	3
CPB446	Women, Education & Social Change in Australia	12	3
LEADERSHIP (ED73)			
School of Cultural and Policy Studies			
CPN603	Changing Agendas in Leadership Education	12	
CPN604	Equity & Education Management Issues & Strategies	12	
CPN605	Organisational Cultures & Education Leadership	12	
CPN606	Educational Leadership, Power & Careers	12	
SCIENCE EDUCATION (ED74)			
School of Mathematics, Science and Technology Education			
MDP520	Thinking & Learning in Mathematics & Science	12	3
MDP541	Science for Schools	12	3
MDP543	Curriculum Specialisation in Mathematics & Science	12	3
MDP545	Exceptionality in Mathematics & Science	12	3

RESOURCE TEACHING (ED75)
School of Learning and Development

LEP523	Learners with Special Needs	12	3
LEP524	Developing Relationships & Groups	12	3
LEP525	Remediating Learning Difficulties	12	3
MDP529	Assessment & Remediation in Mathematics	12	3

■ Graduate Certificate of Education – Teaching English to Speakers of Other Languages (TESOL) (ED60)

Location: Kelvin Grove campus

Course Duration: 1 semester full-time or 2 semesters part-time

Total Credit Points: 48

Tuition Fees (Domestic Students): \$600 per 12 credit point unit (\$50 per credit point)

Course Coordinator: Dr Ed Burke

Entry Requirements

To be eligible for admission an applicant must:

- hold a recognised degree or diploma at a standard acceptable to the Dean, preferably together with experience in TESOL, or
- hold other qualifications and experience acceptable to the Dean..

Applicants who are non-native speakers of English will be asked to present an IELTS or TOEFL score or an ASLPR rating required for entry into studies within the Faculty of Education.

Course Structure

The program introduces students to theories about language, language learning and language teaching and marries these theories with practice in TESOL. Some students may elect to specialise in child, adolescent or adult ESL/EFL learners in their seminars and assignments; others may elect to focus on the special programs (ie English for Special Purpose, English for Academic Purposes, ...) in LAP602 and LAP604. The course consists of four units which will be studied in part-time mode over two semesters or full-time mode over one semester.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
LAP601	Language in Use	12	3
LAP603	The Nature of Language Learning	12	3
Semester 2			
LAP602	Language Teaching in Practice	12	3
LAP604	ESL Materials & Curriculum	12	3

■ Bachelor of Education (In-service) (ED26)

Location: Kelvin Grove, Carseldine and Gardens Point campuses

Course Duration: 1 year full-time, 2 years part-time or external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr John Lidstone

Entry Requirements

Applicants will be admitted to the course who:

- (i) hold a diploma or equivalent at a standard acceptable to the Dean of the Faculty, and have at least one year of teaching experience, or
- (ii) hold other qualifications and experience acceptable to the Dean.

Course Structure

Compulsory Units

Students must complete at least four units from the Faculty of Education. These four units will include the two existing core units, CPB420 Contemporary Issues in Education and CUB410 Teachers and the Curriculum, plus two electives from the Faculty of Education.

Elective Units

Option 1: Students may undertake four 12 credit point units from the Faculty of Education units listed in the Elective lists and from the following Faculty of Education postgraduate courses.

GRADUATE DIPLOMA IN EDUCATION (PRESERVICE):

ED35	GDipEd(Early Childhood)
ED36	GDipEd(Primary)
ED37	GDipEd(Secondary)

GRADUATE DIPLOMA IN EDUCATION (INSERVICE)

ED20	GDipEd(Early Childhood)
ED21	GDipEd(Computer Education)
ED23	GDipEd(Educational Management)
ED24	GDipEd(Resource Teaching)
ED25	GDipEd(Teacher-Librarianship)

BACHELOR OF EDUCATION (PRESERVICE) FOURTH YEAR ELECTIVES:

ED50	BEd(Secondary)
ED51	BEd(Primary)
ED52	BEd(Early Childhood)
ED54	BEd(Adult and Workplace Education)

If units are taken from other courses, students are required to consult the relevant Course Coordinator.

Option 2: Students may undertake four 12 credit point units offered by other Faculties within QUT. Students should ensure that the unit is at an advanced, fourth year, or postgraduate level. Written approval must also be obtained from the unit coordinator offering the elective.

Option 3: Students may undertake four 12 credit point units from a combination of Options 1 and 2.

Special Areas of Interest

While the course is designed to allow maximum flexibility in the selection of electives, students may wish to choose a suite of units related to a specific area of interest. Studies in such areas of interest may be of direct relevance to the student's professional responsibilities, now or in the future, or may provide an introduction to more advanced work at Master of Education level.

Such areas of interest include:

Adult and Workplace Education
Adult Literacy

Art Education
 Arts in Early Childhood
 Business Education
 Culture and Policy Studies
 Curriculum and Professional Studies
 Early Childhood Studies
 Environmental Education
 Human Relationship Education Studies
 Language and Literacy Studies
 Learning and Development Studies
 Mathematics, Science and Technology Education Studies
 Social Education
 Resource Teaching
 Educational Management
 Computer Education
 Teacher-Librarianship

Faculty of Education Units

Core Units

CPB420	Contemporary Issues in Education	12	3
CUB410	Teachers & the Curriculum	12	3

Elective Units

EDB440	Independent Study ⁵	12	
LEB480	Research Methods in Education	12	3

CULTURAL AND POLICY STUDIES

CPB421	Philosophical Perspectives on Schooling	12	3
CPB422	Philosophy in the Classroom	12	3
CPB423	Society, Social Policy & Education	12	3
CPB424	Sociology of the School	12	3
CPB425	Aesthetic Education	12	3
CPB440	The Community & School Administration	12	3
CPB441	History of Australian Education	12	3
CPB442	Education for a Multicultural Society	12	3
CPB443	Comparative & International Education	12	3
CPB444	Issues in Aboriginal Education	12	3
CPB445	Career & Life Patterns of Women Teachers	12	3
CPB446	Women, Education & Social Change in Australia	12	3

CURRICULUM AND PROFESSIONAL STUDIES

CUB413	Curriculum, Making It Happen at School	12	3
CUB414	Adult Education	12	3
CUB431	Classroom Management: Models & Practice	12	3
CUB432	Teachers & Isolated Learners	12	3
CUB433	Teaching Strategies	12	3
CUB435	Facilitating Professional Development & Institutional Change	12	3
CUB436	Analysing Educational Practice	12	3
CUB442	Introduction to Educational Administration	12	3
CUB443	Classroom Assessment Practices	12	3
CUB444	Educators & the Law	12	3

EARLY CHILDHOOD

EAB410	Early Education: Deciding the Curriculum	12	3
EAB411	Early Education: Literacy	12	3
EAB440	Working with Parents & Community	12	3
EAB441	Early Education Development & Learning	12	3
EAP553	Music in Early Childhood Education	12	3

ARTS IN EARLY CHILDHOOD

EAP551	Dance Education in Early Childhood	12	3
EAP552	From Play to Drama in Early Childhood Education	12	3

⁵ The unit EDB440 Independent Study may be taken once only. An Independent Study Guide and application are available from the Faculty of Education Office.

EAP553	Music in Early Childhood Education	12	3
EAP554	The Artistic Process and the Visual Arts in Early Childhood Education	12	3
LANGUAGE AND LITERACY			
LAB410	Language Curriculum Issues	12	3
LAB440	Recent Developments in the Teaching of Writing	12	3
LAB441	Children's Literature	12	3
LAB442	Tutoring Parents as Literacy Tutors	12	3
LAB443	Trends in the Teaching of Reading	12	3
LAB445	Language Learning Through FLIP	12	3
LAB446	Grammar for Writers	12	3
ADULT LITERACY			
LAP521	Program Development, Implementation and Assessment in Adult Literacy	12	3
LAP522	Specific Groups of Adult Literacy Learners	12	3
LAP523	Understanding Adult Literacy	12	3
LAP524	Teaching & Learning in Adult Literacy	12	3
LAP525	Issues in Language Learning	12	3
LEARNING AND DEVELOPMENT			
LEB420	Interpersonal Psychology in Education	12	3
LEB421	Applied Strategies in Classroom Learning	12	3
LEB422	Adult Learning	12	3
LEB430	Creativity in Problem Solving	12	3
LEB431	Interactive Teaching Strategies	12	3
LEB441	Educational Counselling	12	3
LEB442	Advanced Educational Counselling	12	3
LEB443	Human Sexuality & Learning	12	3
LEB444	Human Sexuality & Development	12	3
LEB445	Studies in Alcohol & Other Drugs	12	3
LEB446	Psychoeducational Assessment	12	3
LEB448	Working in Teams	12	3
LEB449	New Perspectives on Teaching & Learning	12	3
LEP518	Human Relationships Across the Lifespan	12	3
MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION			
MDB410	Computers in the School Curriculum	12	3
MDB411	Early Childhood Mathematics Curriculum	12	3
MDB440	Computers & Education	12	3
MDB442	Quantitative Literacy	12	3
MDB444	Science Curriculum	12	3
MDB445	Teaching Problem Solving & Reasoning	12	3
MDB446	Science for Early Childhood	12	3
MDB447	Mathematics Curriculum ²	12	3
MDP542	History of Mathematics and Science ²	12	3
SOCIAL BUSINESS AND ENVIRONMENTAL EDUCATION			
SBB410	Consumer Education	12	3
SBB411	Social Education Curriculum Development	12	3
SBB412	Social Education in the Curriculum	12	3
SBB413	Legal Studies Applied Curriculum	12	3
SBB440	Environmental Education	12	3
SBP502	Ethics & Economics in Environmental Education	12	3
SBP503	Natural Environmental Education Issues	12	3
SBP504	Practical and Fieldwork in Environmental Education	12	3
SBP505	Social Environmental Education Issues	12	3
SBP507	Business Organisation and Management Education 1	12	3
SBP508	Business Organisation and Management Education 2	12	3

² Subject to final approval.

FACULTY OF ARTS

ARTS

AAB410	Art Curriculum Design & Development	12	3
AAB411	Drama Across the Curriculum	12	3
AAB444	Visual Arts of Asia	12	3
AAB447	Drawing	12	3
AAB449	Educational Drama	12	3
AAB455	Computer Graphics 1	12	3
AAB457	Sculpture 1	12	3
AAB459	Visual Arts Design 1 ²	12	3
AAB460	Visual Arts Design 2 ²	12	3
AAB711	Australian Art	12	3
AAB720	Extended Media Studies 1 ²	12	3
AAB721	Extended Media Studies 2 ²	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3

HUMANITIES

HUB002	Contemporary Moral Problems	12	3
HUB311	The Study of History	12	3
HUB313	Australian Studies	12	3
HUB321	Contemporary Indonesia	12	3

SOCIAL SCIENCE

SSB802	Technology & Culture	12	3
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FACULTY OF HEALTH

HUMAN MOVEMENT STUDIES

HMB410	Physical Education Curriculum: Secondary	12	3
HMB411	Physical Education Curriculum: Primary	12	3
HMB412	Health Education Curriculum Planning	12	3
HMB440	Motor Development & Learning in Children	12	3
HMB441	Sociology of Sport	12	3
HMB442	Administration in Physical Education & Sport	12	3

PUBLIC HEALTH

PUB414	Home Economics Applied Curriculum	12	3
PUB440	Clothing Design	12	3
PUB441	Nutrition Education	12	3

FACULTY OF BUSINESS

COB156	Advanced Secretarial Studies	12	3
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FACULTY OF SCIENCE

LSB485	Australian Biology	12	3
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■ Bachelor of Education (Adult and Workplace Education) (ED54)

Location: Kelvin Grove Campus

Course Duration: 2 years full-time, 4 years part-time or external

Total Credit Points: 384 (192 granted as credit on entry)

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Whitta

² Subject to final approval.

Bachelor of Education (Adult & Workplace Education) Course Structure

Full-time Students

	YEAR 1		YEAR 2		STRAND
	Semester 1	Semester 2	Semester 1	Semester 2	
	Adult Education in the Workplace and Community (12)	Adult Learning and Development (12) Context of Adult and Workplace Education (12)	Organisation and Administration of Adult Community and Workplace Education (12) Elective Unit (12)	Elective Unit (12)	EDUCATION STUDIES 72 Credit Points
DISCIPLINE/ CONTENT STUDIES 192 Credit Points (or equivalent) granted as credit on entry	Field Experience 1 (12)	Field Experience 2 (12) or Professional Practice 1* (12)	Field Experience 3 (12)	Field Experience 4 (12) or Professional Practice 3* (12)	PROFESSIONAL PRACTICE 48 Credit Points
	Orientation to Adult and Workplace Programs (12) The Group in Adult and Workplace Education or Secondary Curriculum Subject Part 1 (12)	Instructional Strategies for Adult and Workplace Educators (12)	Programming in Adult and Workplace Education (12)	Elective Unit (12) The Individual in Adult and Workplace Education or Secondary Curriculum Subject Part 2* (12)	CURRICULUM STUDIES 72 Credit Points

* Students seeking registration through the Queensland Board of Teacher Registration must complete these four units.

Advanced Standing

In 1995, advanced standing of two years full-time or its equivalent part-time will be granted to students entering the course who have completed the equivalent of two years of full-time tertiary study in a discipline area demonstrably relevant to the career path pursued by the applicant, or other studies and work experience considered equivalent by the University.

Note: Registration as a teacher for students who complete a secondary school teaching area is subject to final approval.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CUB332	Adult Education in the Workplace and the Community	12	3
CUB333	Field Experience 1	12	
CUB337	Orientation to Adult and Workplace Programs	12	3
Select one unit from the following:			
CUB338	The Group in Adult and Workplace Education	12	3
	Secondary Curriculum Unit Part 1 (See List 3)*	12	
Year 1, Semester 2			
CPB340	Context of Adult and Workplace Education	12	3
CUB339	Instructional Strategies for Adult and Workplace Educators	12	3
LEB333	Adult Learning and Development	12	3
Select one unit from the following:			
CUB334	Field Experience 2	12	
CUB356	Professional Practice 1*	12	
Year 2, Semester 1			
CUB335	Field Experience 3	12	
CUB340	Programming in Adult and Workplace Education	12	3
SBB347	Organisation and Administration of Adult and Workplace Education	12	3
	Education Studies Elective Unit 1 (See List 2)	12	
Year 2, Semester 2			
	Curriculum Studies Elective Unit (See List 1)	12	
	Education Studies Elective Unit 2 (See List 2)	12	3
Select one unit from the following:			
LEB338	The Individual in Adult and Workplace Education	12	3
	Secondary Curriculum Unit Part 2 (See List 3)*	12	3
Select one unit from the following:			
CUB336	Field Experience 4	12	
CUB358	Professional Practice 3*	12	3
Part-Time/External Course Structure			
Year 1, Semester 1			
CUB332	Adult Education in the Workplace and Community	12	3
CUB337	Orientation to Adult and Workplace Programs	12	3
Year 1, Semester 2			
CUB339	Instructional Strategies for Adult and Workplace Educators	12	3
LEB333	Adult Learning and Development	12	3
Year 2, Semester 1			
CUB333	Field Experience 1	12	
CUB338	The Group in Adult and Workplace Education	12	3

* Students seeking registration through the Queensland Board of Teacher Registration must complete these four units.

Bachelor of Education (Adult & Workplace Education) Course Structure **Part-time/External Students**

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		STRAND
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
	Adult Education in the Workplace and Community (12)	Adult Learning and Development (12)		Context of Adult and Workplace Education (12)	Organisation and Administration of Adult Community and Workplace Education (12)		Elective Unit (12)	Elective Unit (12)	EDUCATION STUDIES 72 Credit Points
DISCIPLINE/ CONTENT STUDIES 192 Credit Points (or equivalent) granted as credit on entry			Field Experience 1 (12)	Field Experience 2 (12)		Field Experience 3 (12)		Field Experience 4 (12)	PROFESSIONAL PRACTICE 48 Credit Points
	Orientation to Adult and Workplace Programs (12)	Instructional Strategies for Adult and Workplace Educators (12)	The Group in Adult and Workplace Education (12)		Programming in Adult and Workplace Education (12)	The Individual in Adult and Workplace Education (12)	Elective Unit (12)		CURRICULUM STUDIES 72 Credit Points

Year 2, Semester 2

CPB340	Context of Adult and Workplace Education	12	3
CUB334	Field Experience 2	12	

Year 3, Semester 1

CUB340	Programming in Adult and Workplace Education	12	3
SBB347	Organisation and Administration of Adult and Workplace Education	12	3

Year 3, Semester 2

CUB335	Field Experience 3	12	
LEB338	The Individual in Adult and Workplace Education	12	3

Year 4, Semester 1

	Curriculum Studies Elective Unit (See List 1)	12	
	Education Studies Elective Unit 1 (See List 2)	12	

Year 4, Semester 2

	Education Studies Elective Unit 2 (See List 2)	12	
CUB336	Field Experience 4	12	

List 1: Curriculum Studies Elective Units

CUB343	Open Learning and Flexible Delivery	12	3
LAB339	Adult Literacy and Second Language Learners	12	3
LEB334	Acquisition and Adaptability of Workplace Knowledge and Skills	12	3
MDB382	Problem Solving, Critical Thinking and Futuring	12	3
SBB440	Environmental Education	12	3

List 2: Education Studies Elective Units

Select two electives from the following three sets. Up to two may be chosen from any set.

Group A: Professional Work of Educators

CPB330	Aboriginal and Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture and Education	12	3
CPB332	School-Community Relations	12	3
CPB333	Policy Making and Changing School Practices	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law and the Beginning Teacher	12	3
CUB366	Learning/Teaching Environments	12	3
EDB440	Independent Study	12	
LEB441	Educational Counselling	12	3
LEB480	Research Methods in Education	12	3
MDB300	Teaching in the Information Age	12	3

Group B: Difference and Diversity Among Learners

CPB336	Education and Cultural Diversity	12	3
CPB337	Gender and Education	12	3
CPB338	Identifying and Responding to Student Differences	12	3
CPB339	Teaching Aboriginal and Torres Strait Islander Students	12	3
CUB367	Managing Learners	12	3
EDB440	Independent Study (only one permitted)	12	
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3
LEB337	Gifted Learners	12	3

Group C: Post-compulsory Education

CPB341	Community, Leadership and Citizenship	12	3
CUB342	Law in the Adult and Workplace Environment	12	3
MDB381	Science and Technology in the Community and Workplace	12	3
SBB348	Implications of the National Training Reform Agenda	12	3

List 3: Secondary Curriculum Studies Units

Students complete two Curriculum Studies units corresponding to the discipline area they select.

AAB412	Art Curriculum Studies 1	12	3
AAB413	Art Curriculum Studies 2	12	3
AAB414	Drama Curriculum Studies 1	12	3
AAB415	Drama Curriculum Studies 2	12	3
HMB310	Physical Education Curriculum Studies 1	12	3
HMB340	Physical Education Curriculum Studies 1B	12	3
HMB370	Physical Education Curriculum Studies 2	12	3
HMB380	Physical Education Curriculum Studies 2B	12	3
HMB390	Health Education Curriculum Studies 1	12	3
HMB395	Health Education Curriculum Studies 2	12	3
LAB325	English Curriculum Studies 1	12	3
LAB326	English Curriculum Studies 2	12	3
LAB327	Film & Media Curriculum Studies 1	12	3
LAB328	Film & Media Curriculum Studies 2	12	3
LAB329	LOTE Curriculum Studies 1	12	3
LAB330	LOTE Curriculum Studies 2	12	3
MDB325	Biology Curriculum Studies 1	12	3
MDB326	Biology Curriculum Studies 2	12	3
MDB327	Chemistry Curriculum Studies 1	12	3
MDB328	Chemistry Curriculum Studies 2	12	3
MDB329	Computing Curriculum Studies 1	12	3
MDB330	Computing Curriculum Studies 2	12	3
MDB331	Earth Science Curriculum Studies 1	12	3
MDB332	Earth Science Curriculum Studies 2	12	3
MDB333	Mathematics Curriculum Studies 1	12	3
MDB334	Mathematics Curriculum Studies 2	12	3
MDB335	Physics Curriculum Studies 1	12	3
MDB336	Physics Curriculum Studies 2	12	3
MDB337	Science Curriculum Studies 1	12	3
MDB338	Science Curriculum Studies 2	12	3
PUB312	Home Economics Curriculum Studies 1	12	3
PUB322	Home Economics Curriculum Studies 2	12	3
SBB325	Accounting/Business Management Curriculum Studies 1	12	3
SBB326	Accounting/Business Management Curriculum Studies 2	12	3
SBB327	Office Communication Technology Curriculum Studies 1	12	3
SBB328	Office Communication Technology Curriculum Studies 2	12	3
SBB329	Economics Curriculum Studies 1	12	3
SBB330	Economics Curriculum Studies 2	12	3
SBB331	Geography Curriculum Studies 1	12	3
SBB332	Geography Curriculum Studies 2	12	3
SBB333	History Curriculum Studies 1	12	3
SBB334	History Curriculum Studies 2	12	3
SBB335	Legal Studies Curriculum Studies 1	12	3
SBB336	Legal Studies Curriculum Studies 2	12	3
SBB337	Social Science Curriculum Studies 1	12	3
SBB338	Social Science Curriculum Studies 2	12	3

■ Bachelor of Education (Early Childhood) (ED52)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Whitta

Associate Course Coordinator: Mr Rod Campbell

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EAB320	Early Childhood Transactions 1	12	3
CPB342	Education in Context	12	3
CUB365	Introduction to Professional Practice in Education	12	3
MDB302	Mathematics Foundations	12	3
Year 1, Semester 2			
EAB302	Early Childhood Foundations 1	12	3
LAB340	Language, Technology & Education	12	3
LEB335	Human Development & Education	12	3
MDB303	Science Foundations	12	3
Year 2, Semester 1			
CUB350	Early Childhood Practices 1	12	2.5
EAB303	Early Childhood Foundations 2	12	3
EAB307	Early Childhood Mathematics Education	12	3
EAB309	Integrated Early Childhood Curriculum 1	12	3
Year 2, Semester 2			
CUB351	Early Childhood Practices 2	12	2.5
EAB305	Early Childhood Language Education 1	12	3
EAB321	Early Childhood Transactions 2	12	3
	Elective Unit 1 (see List 1)	12	3
Year 3, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB352	Early Childhood Practices 3	12	2.5
EAB304	Early Childhood Foundations 3	12	3
LEB336	Psychology of Learning & Teaching	12	3
Year 3, Semester 2			
CUB353	Early Childhood Practices 4	12	2.5
EAB300	Early Childhood Arts 1	12	3
EAB308	Early Childhood Sciences, Mathematics & Technology	12	3
	Elective Unit 2 (see List 1)	12	3
Year 4, Semester 1			
CUB354	Early Childhood Practices 5	12	2.5
EAB301	Early Childhood Arts 2	12	3
EAB306	Early Childhood Language Education 2	12	3
	Elective Unit 3 (see List 2)	12	3
Year 4, Semester 2			
CUB355	Early Childhood Practices 6	12	2.5
EAB310	Integrated Early Childhood Curriculum 2	12	3
	Education Studies Elective Unit (see List 3)	12	3
	Education Studies Elective Unit (see List 3)	12	3
List 1: Elective Units 1 and 2			
EAB312	Case Studies in Early Childhood & Family Literacy	12	3
EAB313	Children's Literature for Early Childhood Settings	12	3

Bachelor of Education (Early Childhood) Course Structure

STRAND		YEAR 1		YEAR 2		YEAR 3		YEAR 4		TOTAL
		Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
PROFESSIONAL STUDIES	EDUCATION STUDIES	Education in Context (12) Introduction to Professional Practice (12)	Language, Technology & Education (12) Human Development & Education (12)			Psychology of Learning & Teaching (12) Understanding Educational Practices (12)			Education Studies Elective Unit (12) Education Studies Elective Unit (12)	96
	PROFESSIONAL PRACTICE	Field Experience (2 weeks)*	Field Experience (2 weeks)*	Early Childhood Practices 1 (2 weeks) (12)#	Early Childhood Practices 2 (2 weeks) (12)#	Early Childhood Practices 3 (3 weeks) (12)# Field Experience (2 weeks)*	Early Childhood Practices 4 (3 weeks) (12)#	Early Childhood Practices 5 (3 weeks) (12)#	Early Childhood Practices 6 (3 weeks) (12)#	72
	CURRICULUM STUDIES		EC Foundations 1 (12)	EC Foundations 2 (12) Integrated EC Curriculum 1 (12) EC Maths Education (12)	EC Language Education 1 (12)	EC Foundations 3 (12)	EC Sciences, Maths & Technology (12) EC Arts 1 (12)	EC Language Education 2 (12) EC Arts 2 (12)	Integrated EC Curriculum 2 (12)	132
DISCIPLINE/CONTENT STUDIES		EC Transactions 1 (12) Maths Foundations (12)	Science Foundations (12)		EC Transactions 2 (12) Elective Unit 1 (12)+		Elective Unit 2 (12)+	Elective Unit 3 (12)+		84
TOTAL		48	48	48	48	48	48	48	48	384

+ These three elective units may be taken in a variety of schools and faculties.

These units include a component of campus-based study.

* Credit points for field experience come from the education studies in the corresponding component.

ø Year 4 transition students in 1995 have 4 weeks of teaching practice per semester.

EAB314	Children, Teachers & the Environment	12	3
EAB315	Creating Curriculum with Young Children	12	3
EAB316	Early Childhood Art Education	12	3
EAB317	Early Childhood Drama in Education	12	3
EAB323	Everyday Food & Science for Young Children	12	3
EAB326	Music Education & Young Children	12	3
EAB329	Routines for Inclusive Early Childhood Curriculum	12	3
EAB330	Storytelling in Early Childhood	12	3
EAB331	Technology & the Young Child	12	3
MDB301	History of Mathematics	12	3

List 2: Elective Unit 3

EAB311	Alternative Programs in Early Childhood	12	3
EAB318	Early Childhood Education & Family Issues in Australia	12	3
EAB319	Early Childhood Socio-cultural Contexts	12	3
EAB322	Ethical Responsibilities in Early Childhood	12	3
EAB324	Integrating Young Children with Disabilities into Early Childhood Programs	12	3
EAB325	Management of Early Childhood Services	12	3
EAB328	Research in Early Childhood Development	12	3
EAB332	Technology in Early Childhood Contexts	12	3

List 3: Education Studies Elective Units

Students select **one** unit from Group A and **one** unit from Group B.

Group A: Professional Work of Educators

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	School-Community Relations	12	3
CPB333	Policy Making and Changing School Practices	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
CUB366	Learning/Teaching Environments	12	3
EDB440	Independent Study ⁵	12	3
LEB480	Research Methods in Education	12	3
LEB441	Educational Counselling	12	3
MDB300	Teaching in the Information Age	12	3

Group B: Difference & Diversity Among Learners

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
CUB367	Managing Learners	12	3
LEB337	Gifted Learners	12	3
EDB440	Independent Study ⁵	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3

■ Bachelor of Education (Primary) (ED51)

Location: Kelvin Grove campus (some elective units are located at Carseldine campus)

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Whitta

⁵ The unit EDB440 Independent Study may be taken once only. An Independent Study Guide and application are available from the Faculty of Education Office.

Bachelor of Education (Primary) Course Structure

STRAND		YEAR 1		YEAR 2		YEAR 3		YEAR 4		TOTAL
		Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
PROFESSIONAL STUDIES	EDUCATION STUDIES	Education in Context (12) Language & Technology Education (12)	Introduction to Professional Practice (12) Human Development & Education (12)			Psychology of Learning & Teaching (12)	Understanding Educational Practices (12)		Education Studies Elective Unit (12) Education Studies Elective Unit (12)	96
	PROFESSIONAL PRACTICE	Field Experience (2 weeks)+	Field Experience (1 week)+ Professional Practice (1 week)	Teachers as Communicators & Professional Practice 1 (3 weeks) (12)#	Teachers as Managers & Professional Practice 2 (3 weeks) (12)#	Teachers as Curriculum Decision-Makers & Professional Practice 3 (3 weeks) (12)# Field Experience (1 week)+	Field Experience (1 week)+	Teachers as Responsive Practitioners & Professional Practice 4 (3 weeks) (12)#	Teachers as Reflective Practitioners & Professional Practice 5 (3 weeks) (12)#	60
	CURRICULUM STUDIES			Visual & Performing Arts Curriculum 1 (12) Teaching Social Education (12)	Classroom Language Learning (12) Mathematics Education (12)	Science Education (12)	Health & Phys Ed 1 (12)	Language Programming & Assessment (12) Maths & Tech Education (12)	Curriculum Elective Unit (12) OR LOTE 6* (12)	108 – 144
						Visual & Performing Arts Curriculum 2 (12) OR LOTE Curriculum (12)	Curriculum in Social Education (12) OR LOTE Curriculum (12)	Health & Phys Ed 2 (12) OR		
DISCIPLINE/CONTENT STUDIES		Maths Foundations (12) Science Foundations (12)	Elective Unit A (12) Elective Unit A (12)	LOTE 1 (12) OR Elective Unit B1 (12)	LOTE 2 (12) OR Elective Unit B2 (12)	LOTE 3 (12)	LOTE 4 (12) OR Elective Unit B3 (12)	LOTE 5 (12)		84 – 120
TOTAL		48	48	48	48	48	48	48	48	384

* LOTE Curriculum is studied instead of LOTE 6 by transition students in 1995.

+ Credit points for field experience come from the education studies in the corresponding component.

These units include a component of campus-based study.

Associate Course Coordinator: Ms Tania Aspland**Course Structure**

Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

CPB342	Education in Context	12	3
LAB340	Language, Technology & Education	12	3
MDB302	Mathematics Foundations	12	3
MDB303	Science Foundations	12	3

Year 1, Semester 2

CUB365	Introduction to Professional Practice in Education	12	3
LEB335	Human Development & Education	12	3

Plus two units from the following (Elective Units A):

AAB918	Art Foundation Studies	12	3
HMB171	Fitness, Health & Wellness	12	3
SBB342	Social & Environmental Foundations	12	3

Year 2, Semester 1

AAB914	Visual & Performing Arts Curriculum 1	12	3
CUB360	Teachers as Communicators & Professional Practice 1	12	
SBB340	Teaching Social Education	12	3

Select one unit from the following:

LOTE Elective Unit 1 (see List 1)	12	3
Elective Unit B1 (see List 2)	12	3

Year 2, Semester 2

CUB361	Teachers as Managers & Professional Practice 2	12	
LAB338	Classroom Language Learning	12	3
MDB339	Mathematics Education	12	3

Select one unit from the following:

LOTE Elective Unit 2 (see List 1)	12	3
Elective Unit B2 (see List 2)	12	3

Year 3, Semester 1

CUB362	Teachers as Curriculum Decision-makers & Professional Practice 3	12	
LEB336	Psychology of Learning & Teaching	12	3
MDB341	Science Education	12	3

Select one unit from the following:

AAB915	Visual & Performing Arts Curriculum 2	12	3
	LOTE Elective Unit 3 (see List 1)	12	3

Year 3, Semester 2

CPB343	Understanding Educational Practices	12	3
HMB301	Health & Physical Education 1	12	5

Select one unit from the following:

SBB339	Curriculum in Social Education	12	3
LAB334	Primary LOTE Curriculum Studies (see List 4)	12	3
	LOTE Elective Unit 4 (see List 1)	12	3
	Elective Unit B3 (see List 2)	12	3

Year 4, Semester 1

CUB363	Teachers as Responsive Practitioners & Professional Practice 4	12	
LAB331	Language Programming & Assessment	12	3
MDB340	Mathematics & Technology Education	12	3

Select one unit from the following:

HMB302	Health & Physical Education 2	12	3
	LOTE Elective Unit 5 (see List 1)	12	3

Year 4, Semester 2

CUB364	Teachers as Reflective Practitioners & Professional Practice 5	12	
	Education Studies Elective Unit (see List 3)	12	3
	Education Studies Elective Unit (see List 3)	12	3

Select one unit from the following:

Curriculum Elective Unit (see List 4)	12	3
LOTE 6	12	3

List 1: Languages Other Than English (LOTE) Units

General primary/LOTE students are required to complete 72 credit points of discipline/content studies plus 12 credit points of curriculum studies in one of the four languages available. Students who have taken their LOTE to Year 12 or equivalent do not take the introductory units. The language units in the discipline/content strands are as follows:

FRENCH

HUB670	Introductory French 1	12	4
HUB671	Introductory French 2	12	4
HUB672	French Language & Culture 1	12	4
HUB673	French Language & Culture 2	12	4
HUB674	French Language & Culture 3	12	4
HUB675	French Language & Culture 4	12	4
HUB676	French Language & Culture 5	12	4
HUB677	French Language & Culture 6	12	4

GERMAN

HUB735	Introductory German 1	12	4
HUB736	Introductory German 2	12	4
HUB737	German Language & Culture 1	12	4
HUB738	German Language & Culture 2	12	4
HUB739	German Language & Culture 3	12	4
HUB740	German Language & Culture 4	12	4
HUB741	German Language & Culture 5	12	4
HUB742	German Language & Culture 6	12	4

INDONESIAN

HUB650	Introductory Indonesian 1	12	4
HUB651	Introductory Indonesian 2	12	4
HUB652	Indonesian Language & Culture 1	12	4
HUB653	Indonesian Language & Culture 2	12	4
HUB654	Indonesian Language & Culture 3	12	4
HUB655	Indonesian Language & Culture 4	12	4

JAPANESE

HUB660	Introductory Japanese 1	12	4
HUB661	Introductory Japanese 2	12	4
HUB662	Japanese Language & Culture 1	12	4
HUB663	Japanese Language & Culture 2	12	4
HUB664	Japanese Language & Culture 3	12	4
HUB665	Japanese Language & Culture 4	12	4
HUB666	Japanese Language & Culture 5	12	4
HUB667	Japanese Language & Culture 6	12	4

List 2: Elective Units B

Students (except for those following the LOTE program) complete three units from one of the following groups.

ABORIGINAL AND TORRES STRAIT ISLANDER STUDIES

EDB336	Aboriginal & Torres Strait Islanders, Past & Present	12	3
EDB337	Issues in Aboriginal & Torres Strait Islander Cultures	12	3
EDB338	Murri & Torres Strait Islander Studies: An Integrated Perspective	12	3

ARTS

Students wishing to undertake studies in Dance, Drama or Visual Art will be able to select an appropriate sequence of accredited units offered to Education students by the Academy of the Arts. Any student wishing to select a Visual Arts specialisation may select any studio unit listed for the BEd (Secondary) (ED50) extended major. Those wishing to take a music specialisation will take the following three music units:

AAB911	Exploring Music 1	12	3
AAB912	Exploring Music 2	12	3
AAB913	Exploring Music 3	12	3

ASIAN STUDIES

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB615	Modern China & Japan	12	3

HEALTH

HMB305	Personal Health	12	3
HMB333	Child & Adolescent Health	12	3
PUB327	Health Issues in Australia	12	3

LANGUAGE

LAB335	Literature in Teaching	12	3
LAB336	Linguistics in Teaching	12	3
LAB337	Workshop for Writers	12	3

MATHEMATICS

MDB301	History of Mathematics	12	3
MDB347	Excursions in Number	12	3
MDB349	Mathematical Thinking	12	3

PHYSICAL EDUCATION

HMB304	Physical Activity & Modern Society	12	3
HMB306	Developmental & Integrated Physical Activity	12	3
HMB308	Physical Activity Studies	12	3

SCIENCE

MDB378	Earth & Space	12	3
MDB379	Science & Survival	12	3
MDB380	Technology & Life Science	12	3

STUDENTS WITH DISABILITIES

HMB345	Motor Development & Performance in Disabled Children	12	3
LEB304	Children with Social & Emotional Difficulties	12	3
LEB305	Understanding Children with Intellectual Disabilities	12	3

SOCIAL SCIENCES

SBB343	The Australian Legacy	12	3
SBB344	Consumer Education in Primary Schools	12	3
SBB345	Australia, Asia & the Pacific – A Futures Approach	12	3

List 3: Education Studies Elective Units

Students select one unit from Group A and one unit from Group B.

Group A: Professional Work of Educators

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	School-Community Relations	12	3
CPB333	Policy Making and Changing School Practices	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
CUB366	Learning/Teaching Environments	12	3
EDB440	Independent Study ⁵	12	
LEB441	Educational Counselling	12	3

LEB480	Research Methods in Education	12	3
MDB300	Teaching in the Information Age	12	3

Group B: Difference and Diversity Among Learners

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
CUB367	Managing Learners	12	3
EDB440	Independent Study ⁵	12	
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3
LEB337	Gifted Learners	12	3

List 4: Curriculum Elective Units

Students select one unit from this group

AAB916	Advanced Visual & Performing Arts Curriculum	12	3
AAB917	The Arts & the Whole Curriculum	12	3
CUB331	Mainstream Integration of Children with Disabilities	12	3
HMB341	Sporting & Camping Administration	12	3
HMB342	The Development of Teaching Skills in Physical Education	12	3
HMB343	Environmental Health	12	3
HMB344	Human Relationships Education	12	3
LAB332	Children's Literature in the Primary Curriculum	12	3
LAB333	Language in Key Learnings	12	3
LAB334	Primary LOTE Curriculum Studies ¹⁰	12	3
MDB342	Computers in the School Curriculum	12	3
MDB343	Diagnosis & Remediation in Mathematics	12	3
MDB344	Initiatives in Science Education	12	3
SBB341	Directions in Social Education	12	3
SBB346	Environmental Education	12	3

■ Bachelor of Education (Secondary) (ED50)

Location: Kelvin Grove campus (some unit areas are located at Carseldine and Gardens Point campuses)

Course Duration: 4 years full-time (2 years full-time for Graduate Entry students meeting all discipline studies requirements for their two teaching areas from their initial degree)

Total Credit Points: 384 (192 for Graduate Entry students)

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Whitta

Associate Course Coordinator: Mr Peter Meadmore

Course Requirements

Undergraduate-entry students complete 192 credit points of professional studies and 192 credit points of discipline studies. Graduate-entry students complete 192 credit points of professional studies only.

Entry into Course Streams

COURSE STREAM

Art
Business Education

DISCIPLINE AREAS

Art
Accounting/Business Management
Office Communication Technology
Economics
Legal Studies

⁵ The unit EDB440 Independent Study may be taken once only. An Independent Study Guide and application are available from the Faculty of Education Office.

¹⁰ For students following the LOTE program.

Bachelor of Education (Secondary) Course Structure

STRAND		YEAR 1		YEAR 2		YEAR 3		YEAR 4		TOTAL
		Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
PROFESSIONAL STUDIES	EDUCATION STUDIES		Education in Context (12) Language Technology & Education (12)	Introduction to Professional Practice (12) Human Development & Education (12)		Psychology of Learning & Teaching (12)		Understanding Educational Practices (12) Education Studies Elective Unit (12) Education Studies Elective Unit (12)		96
	PROFESSIONAL PRACTICE		Field Experience (2 weeks)+	Field Experience (2 weeks)+		Professional Practice 1 (4 weeks PT) (12) Field Experience (1 week)+		Professional Practice 2 (5 weeks PT) (12) Field Experience (1 week)+	Professional Practice 3 (5 weeks PT) (12) Professional Practice 4: The Beginning Teacher (12)#	48
	CURRICULUM STUDIES					Curriculum Studies 1X (12) Curriculum Studies 1Y (12)			Curriculum Studies 2X (12) Curriculum Studies 2Y (12)	48
DISCIPLINE/CONTENT STUDIES		Discipline Studies X (24) Discipline Studies Y (24)	Discipline Studies X (12) Discipline Studies Y (12)	Discipline Studies X (12) Discipline Studies Y (12)	Discipline Studies X (24) Discipline Studies Y (24)		Discipline Studies X/Y/Z (48)			192
TOTAL		48	48	48	48	48	48	48	48	384

+ Credit points for field experience come from the core education studies in corresponding semesters.

On campus program equivalent to a 14 week unit.

Bachelor of Education (Secondary) Course Structure – Graduate Entry Students

STRAND		YEAR 3*		YEAR 4*		TOTAL
		Semester 1	Semester 2	Semester 1	Semester 2	
PROFESSIONAL STUDIES	EDUCATION STUDIES	Psychology of Learning & Teaching (12)	Human Development & Education (12) Introduction to Professional Practice (12) Education in Context (12) Language Technology & Education (12)	Understanding Educational Practices (12) Education Studies Elective Unit (12) Education Studies Elective Unit (12)		96
	PROFESSIONAL PRACTICE	Professional Practice 1 (4 weeks PT) (12) Field Experience (1 week)+	Field Experience (4 weeks)+	Professional Practice 2 (5 weeks PT) (12) Field Experience (1 week)+	Professional Practice 3 (5 weeks PT) (12) Professional Practice 4: The Beginning Teacher (12)#	48
	CURRICULUM STUDIES	Curriculum Studies 1X (12) Curriculum Studies 1Y (12)			Curriculum Studies 2X (12) Curriculum Studies 2Y (12)	48
	TOTAL	48	48	48	48	192

+ Credit Points for field experience come from the core education studies in corresponding semesters.

* Credit has been given for years 1 and 2 of the BEd (Pre-service) based on the initial degree qualification.

On campus program equivalent to a 14 week unit.

Communication

Drama

Home Economics

Physical Education

Science/Mathematics/Computing

Social Science

English

Film & Media Studies

French

German

Indonesian

Japanese

Drama

Home Economics

Physical Education

Biology

Chemistry

Computing

Earth Science

Mathematics

Physics

Science Studies

Geography

History

Social Science

Studies are also available in Health Education.

Discipline Studies

Undergraduate-entry students are required to take 192 credit points of Discipline Studies units, specialising in two teaching areas appropriate to Years 8-12 in Queensland.

Students must complete at least 96 credit points in one teaching area and will normally complete at least 72 credit points in their other teaching area (Groups X and Y). The remaining 24 credit points may be added to the 72, added to the 96, or used for personal development in a third area.

In certain circumstances, permission may be given to complete 48 credit points in a non-teaching discipline area. Students undertaking this option will complete 96 credit points in one of their two teaching areas and 48 credit points in their other teaching area. An additional 48 credit points may then be selected in a non-teaching area.

Note: The abovementioned option is not available in all teaching areas. Approval from the Course Coordinator is required. Students wishing to explore this option should consult with the Associate Course Coordinator (Secondary).

Hence, the combinations available include the following:

- | | |
|---------------------------|-------------------|
| (a) Teaching area 1 | 72 credit points |
| Teaching area 2 | 120 credit points |
| (b) Teaching area 1 | 96 credit points |
| Teaching area 2 | 96 credit points |
| (c) Teaching area 1 | 72 credit points |
| Teaching area 2 | 96 credit points |
| Liberal Studies (Group Z) | 24 credit points |
| (d) Teaching area 1 | 96 credit points |
| Teaching area 2 | 48 credit points |
| Non-teaching area | 48 credit points |

The teaching areas are divided into Group X and Group Y as shown following. Students may also select up to 24 credit points from units in Group Z in consultation with the Associate Course Coordinator. Students should note that not all faculties offer units for elective studies in the Bachelor of Education (Pre-service).

GROUP X
Accounting/Business
Management
Art
Office Communication
Technology
Computing
Drama
English
Home Economics
Mathematics¹²
Physical Education
Science Studies¹¹
Social Science

GROUP Y
Accounting/Business
Management
Biology¹¹
Chemistry¹¹
Earth Science¹¹
Economics
English
Film & Media
French
Geography
German
Health Education
History
Indonesian
Japanese
Legal Studies
Mathematics
Physics¹²
Science Studies¹²

GROUP Z
Units listed under X and Y
(excluding the two teaching
areas) plus units from other
suitable QUT courses.

Notes

Where the same teaching area is listed in both Groups X and Y (for instance, English), it may only be selected once.

There may be limited places in some disciplines as a second teaching area.

Students in the fourth year of the course will continue with teaching area combinations outlined in 1991/92.

Under certain conditions, students may be permitted to complete a double major in physical education.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
	Discipline Studies X Unit	24	
	Discipline Studies Y Unit	24	
Year 1, Semester 2			
CPB342	Education in Context	12	3
LAB340	Language, Technology & Education	12	3
	Discipline Studies X Unit	12	
	Discipline Studies Y Unit	12	
Year 2, Semester 1			
LEB335	Human Development & Education	12	3
CUB365	Introduction to Professional Practice in Education	12	3
	Discipline Studies X Unit	12	3
	Discipline Studies Y Unit	12	3
Year 2, Semester 2			
	Discipline Studies X Unit	24	
	Discipline Studies Y Unit	24	
Year 3, Semester 1			
CUB356	Professional Practice 1	12	
LEB336	Psychology of Learning & Teaching	12	3
	Curriculum Studies 1X Unit	12	3
	Curriculum Studies 1Y Unit	12	3

¹¹ Biology, Chemistry and Earth Science can only be undertaken by students also studying Science Studies.

¹² Physics and Science Studies may be taken with Mathematics.

Year 3, Semester 2

Discipline Studies X, Y or Z Units	48
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Year 4, Semester 1

CPB343	Understanding Educational Practices	12	3
CUB357	Professional Practice 2	12	
	Education Studies Elective Unit	12	3
	Education Studies Elective Unit	12	3

Year 4, Semester 2

CUB358	Professional Practice 3	12	
CUB359	Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies 2X Unit	12	3
	Curriculum Studies 2Y Unit	12	3

Curriculum Studies Units

Students complete two sets of Curriculum Studies units corresponding to the two discipline areas they select. The sets (comprising unit X and unit Y) of curriculum studies are listed following.

AAB412	Art Curriculum Studies 1	12	3
AAB413	Art Curriculum Studies 2	12	3
AAB414	Drama Curriculum Studies 1	12	3
AAB415	Drama Curriculum Studies 2	12	3
HMB310	Physical Education Curriculum Studies 1	12	3
HMB370	Physical Education Curriculum Studies 2	12	3
HMB340	Physical Education Curriculum Studies 1B	12	3
HMB380	Physical Education Curriculum Studies 2B	12	3
HMB390	Health Education Curriculum Studies 1	12	3
HMB395	Health Education Curriculum Studies 2	12	3
LAB325	English Curriculum Studies 1	12	3
LAB326	English Curriculum Studies 2	12	3
LAB327	Film & Media Curriculum Studies 1	12	3
LAB328	Film & Media Curriculum Studies 2	12	3
LAB329	LOTE Curriculum Studies 1	12	3
LAB330	LOTE Curriculum Studies 2	12	3
MDB325	Biology Curriculum Studies 1	12	3
MDB326	Biology Curriculum Studies 2	12	3
MDB327	Chemistry Curriculum Studies 1	12	3
MDB328	Chemistry Curriculum Studies 2	12	3
MDB329	Computing Curriculum Studies 1	12	3
MDB330	Computing Curriculum Studies 2	12	3
MDB331	Earth Science Curriculum Studies 1	12	3
MDB332	Earth Science Curriculum Studies 2	12	3
MDB333	Mathematics Curriculum Studies 1	12	3
MDB334	Mathematics Curriculum Studies 2	12	3
MDB335	Physics Curriculum Studies 1	12	3
MDB336	Physics Curriculum Studies 2	12	3
MDB337	Science Curriculum Studies 1	12	3
MDB338	Science Curriculum Studies 2	12	3
PUB312	Home Economics Curriculum Studies 1	12	3
PUB322	Home Economics Curriculum Studies 2	12	3
SBB325	Accounting/Business Management Curriculum Studies 1	12	3
SBB326	Accounting/Business Management Curriculum Studies 2	12	3
SBB327	Office Communication Technology Curriculum Studies 1	12	3
SBB328	Office Communication Technology Curriculum Studies 2	12	3

SBB329	Economics Curriculum Studies 1	12	3
SBB330	Economics Curriculum Studies 2	12	3
SBB331	Geography Curriculum Studies 1	12	3
SBB332	Geography Curriculum Studies 2	12	3
SBB333	History Curriculum Studies 1	12	3
SBB334	History Curriculum Studies 2	12	3
SBB335	Legal Studies Curriculum Studies 1	12	3
SBB336	Legal Studies Curriculum Studies 2	12	3
SBB337	Social Science Curriculum Studies 1	12	3
SBB338	Social Science Curriculum Studies 2	12	3

Education Studies Elective Units

Students select one unit from Group A and one unit from Group B.

Group A: Professional Work of Educators

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	School-Community Relations	12	3
CPB333	Policy Making and Changing School Practices	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
CUB366	Learning/Teaching Environments	12	3
EDB440	Independent Study ^{13, 14}	12	3
LEB441	Educational Counselling	12	3
LEB480	Research Methods in Education ¹⁴	12	3
MDB300	Teaching in the Information Age	12	3

Group B: Difference and Diversity Among Learners

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
CUB367	Managing Learners	12	3
EDB440	Independent Study ^{13, 14}	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3
LEB337	Gifted Learners	12	3

Discipline Studies Units

ACCOUNTING/BUSINESS MANAGEMENT MINOR

(72 credit points)

AYB101	Computerised Accounting Systems	12	4
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
BSB102	Management & Organisation	12	3
FNB122	Management Accounting	12	4
ISB892	Business Computing	12	4

ACCOUNTING/BUSINESS MANAGEMENT MAJOR

(96 credit points)

AYB101	Computerised Accounting Systems	12	4
AYB102	Accounting Disclosure & Auditing	12	3
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
BSB102	Management & Organisation	12	3

¹³ Only one independent study is permitted. Students should consult with the Faculty of Education office prior to enrolling. The Independent Study Guide and application form are available from the Faculty office.

¹⁴ Recommended elective unit for students contemplating higher degree studies.

FNB122	Management Accounting	12	4
HRB135	Small Business Management	12	3
ISB892	Business Computing	12	4

ACCOUNTING/BUSINESS MANAGEMENT EXTENDED MAJOR (120 credit points)

ALB110	Business Law	12	4
	OR		
FNB111	Finance 1	12	4
AYB101	Computerised Accounting Systems	12	4
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
AYB112	Company Accounting	12	4
AYB210	Auditing	12	3
BSB102	Management & Organisation	12	3
FNB122	Management Accounting	12	4
HRB135	Small Business Management	12	3
ISB892	Business Computing	12	4

ART MINOR

(72 credit points)

AAB052	Signs & Meanings	12	3
AAB421	Foundation Art Studies	12	4
AAB711	Australian Art	12	3

Plus three of the following elective units:

AAB447	Drawing	12	3
AAB455	Computer Graphics 1	12	3
AAB457	Sculpture 1	12	3
AAB459	Visual Arts Design 1	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3

ART MAJOR

(96 credit points)

As for the minor program plus 24 additional credit points selected from the above list.

ART EXTENDED MAJOR

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

ART ADVANCED LEVEL UNITS

AAB460	Visual Arts Design ²	12	3
AAB720	Extended Media Studies ^{1,2}	12	3
AAB721	Extended Media Studies ²	12	3

BIOLOGY MINOR

(72 credit points)

LSB118	Introduction to Life Science ²	12	6
LSB142	Human Anatomy & Physiology	12	5
LSB452	Marine Studies	12	5
MDB375	Computing Tools for Teachers ²	12	3
SCB202	Science Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science strand coordinator. No more than one non-Biology elective unit may be selected.

² Subject to final approval.

CHB182	Chemistry 1	12	6
LSB228	Animal & Plant Structure and Function ²	12	5
LSB238	Cell and Molecular Biology 1 ²	12	5
LSB302	Animal Biology 1	12	5
LSB308	Biochemistry 3	12	5
LSB322	Plant Biology ²	12	5
LSB328	Microbiology 3	12	5
LSB332	Plant Physiology	12	5
LSB352	Population Ecology	12	5
LSB362	Quantitative Methods in Life Science ²	12	5
LSB402	Animal Biology	12	5
LSB432	Genetics	12	5
LSB485	Australian Biology	12	3
LSB498	Ecological Methods ² (not available in 1995)	12	5
LSB442	Plant Tissue Culture 1	12	5
LSB568	Electron Microscopy	12	5
MAB237	Statistics	12	4

BIOLOGY MAJOR

(96 credit points)

As for the minor program plus 24 additional credit points selected from the above list in consultation with the BEd science strand coordinator.

BIOLOGY EXTENDED MAJOR

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list in consultation with the BEd science strand coordinator.

CHEMISTRY MINOR

(72 credit points)

CHB182	Chemistry 1	12	6
CHB282	Chemistry 2	12	6
CHB402	Chemicals in Society	12	5
SCB202	Science Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science strand coordinator:

CHB213	Concepts of Analytical Chemistry ²	12	5
CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
CHB352	Organic Chemistry 3	12	5
CHB372	Physical Chemistry 3	12	5
CHB423	Chemical Technology 4	12	5
CHB453	Organic Chemistry 4	12	5
CHB473	Physical Chemistry 4	12	5
CHB643	Applied Spectroscopy	12	5
CHB663	Environmental Chemistry ²	12	5
CHB693	Materials Chemistry ²	12	5
ESB452	Geochemistry	12	5
LSB308	Biochemistry 3	12	5
PHB122	Physics 1	12	5

CHEMISTRY MAJOR

(96 credit points)

As for the minor program plus 24 additional credit points selected from the above list in consultation with the BEd science strand coordinator.

CHEMISTRY EXTENDED MAJOR

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list in consultation with the BEd science strand coordinator.

² Subject to final approval.

OFFICE COMMUNICATION TECHNOLOGY MINOR

(72 credit points)

COB118	Communication Technology in Organisations	12	3
COB119	Text Formatting & Transcription	12	3
COB120	Business Communication	12	3
COB121	Records Management	12	3
COB122	Office Procedures	12	3
COB123	Issues in Communication Technology	12	3

OFFICE COMMUNICATION TECHNOLOGY MAJOR

(96 credit points)

As for the minor program plus the following:

COB126	Supervision & Administration	12	3
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Select one of the following units:

COB124	Office Transcription A	12	3
COB125	Office Transcription B	12	3

COMPUTING MINOR

(72 credit points)

CSB860	Computer Systems for Teachers	12	3
ISB863	Database Theory & Techniques	12	3
ISB865	Information System Modelling	12	3
MDB345	Software Development for Educational Contexts	12	3
MDB375	Computing Tools for Teachers	12	3

Select one of the following units:

ITB442	Foundations of Artificial Intelligence	12	3
MDB377	Project Planning & Implementation for Educational Purposes	12	3

COMPUTING MAJOR

(96 credit points)

As for the minor program plus the following:

CSB087	Programming Languages for Teachers	12	3
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Select one of the following units:

ITB442	Foundations of Artificial Intelligence	12	3
MDB377	Project Planning & Implementation for Educational Purposes	12	3

COMPUTING EXTENDED MAJOR

(120 credit points)

As for the major program plus an additional 24 credit points selected from the Faculty of Information Technology or Faculty of Science, School of Mathematics in consultation with the BED computing strand coordinator.

DRAMA MINOR

(72 credit points)

AAB202	Acting 1	12	4
AAB204	Voice & Movement 1	12	4
AAB208	Elements of Drama	12	3
AAB212	Development of Theatre 2	12	3
AAB214	Drama Process	12	3
AAB303	Theatre in Education	12	3

DRAMA MAJOR

(96 credit points)

As for the minor program plus the following:

AAB304	Forming Knowledge	12	3
AAB305	Advanced Drama Process	12	3

DRAMA EXTENDED MAJOR
(120 credit points)

As for the major program plus the following:

AAB205	Voice & Movement 2	12	4
AAB225	Practicum 1	12	

EARTH SCIENCE MINOR (Subject to approval)
(72 credit points)

ESB122	Physical Geology ²	12	5
ESB222	Historical Geology ²	12	5
SCB202	Science, Technology & Society	12	4
SCB222	Exploration of the Universe	12	5

Plus two of the following elective units selected in consultation with the BEd science strand coordinator:

CHB182	Chemistry 1	12	6
ESB312	Mineralogy	12	5
ESB332	Geophysics ²	12	5
ESB342	Structural Geology and Geomechanics ²	12	5
ESB392	Field Techniques & Studies	12	5
ESB432	Geomorphology & Sedimentary Geology ²	12	5
ESB452	Geochemistry	12	5
ESB462	Lithology	12	5
ESB472	Mineral Deposits & Mine Geology ²	12	5
ESB502	Pacific Marine Geology	12	5
ESB512	Igneous & Metamorphic Petrology	12	5
ESB542	Engineering & Environmental Geology ²	12	5
ESB592	Geological Field Excursions	12	
ESB652	Exploration Geoscience ²	12	5
ESB672	Geology of Fossil Fuels	12	5
MDB375	Computing Tools for Teachers ²	12	5
SCB612	Earth Resources Management	12	5

EARTH SCIENCE MAJOR
(96 credit points)

As for the minor program plus an additional 24 credit points selected from the above list in consultation with the BEd science strand coordinator.

EARTH SCIENCE EXTENDED MAJOR
(120 credit points)

As for the major program plus an additional 24 credit points selected from the above list in consultation with the BEd science strand coordinator.

ECONOMICS MINOR
(72 credit points)

EPB114	Economic Development	12	3
EPB132	International Trade & Finance	12	3
EPB140	Macroeconomics	12	3
EPB150	Microeconomics	12	3
EPB163	Research & Survey Methods	12	3
EPB171	Economic Analysis & Policy	12	3

ECONOMICS MAJOR
(96 credit points)

As for the minor program plus the following:

EPB106	Australian Economic History	12	3
EPB111	Comparative Economic Systems	12	3

² Subject to final approval.

ENGLISH MINOR

(72 credit points)

HUB603	Texts & Interpretations	12	3
HUB710	Australian Literary Studies	12	3
LAB320	Studies in Language	12	3
MJB140	The Media & Society	12	3
Plus two of the following elective units:			
HUB625	American Literature	12	3
HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB711	Australian Women's Writing	12	3
HUB712	Australian Children's & Adolescent Fiction	12	3
HUB724	Nineteenth Century English Literature & Culture	12	3
HUB725	Twentieth Century English Literature & Culture	12	3
HUB726	European Literature & Social Change	12	3
HUB727	European Literature & Identity	12	3
HUB728	Popular Literature	12	3
HUB729	Shakespeare in the Modern World	12	3
HUB730	Women's Writing & Representation	12	3
LAB321	Writing Workshop	12	3
LAB322	Literature in Teaching	12	3
LAB323	Teaching Adolescent Literature	12	3

ENGLISH MAJOR

(96 credit points)

As for the minor program plus an additional 24 credit points selected from the above list.

ENGLISH EXTENDED MAJOR

(120 credit points)

As for the major program plus an additional 24 credit points selected from the above list.

FILM AND MEDIA MINOR

(72 credit points)

MJB100	Media Production	12	3
MJB109	Australian Television	12	3
MJB126	Video Production	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3

FILM AND MEDIA MAJOR

(96 credit points)

As for the minor program plus:

MJB105	Film & Society	12	3
MJB143	Australian Film	12	3

FILM AND MEDIA EXTENDED MAJOR

(120 credit points)

As for the major program plus two of the following elective units:

MJB106	Screen Adaption	12	3
MJB107	Gender & the Media	12	3
MJB110	Asian & Latin American Cinema	12	3
MJB144	European Cinema	12	3
MJB147	Film Genres	12	3
MJB149	Film History	12	3

FRENCH MINOR¹⁵

(72 credit points) – Students who have not studied French to Year 12 or equivalent

HUB670	Introductory French 1	12	4
HUB671	Introductory French 2	12	4

¹⁵ This discipline area is not available to students commencing studies in 1995.

HUB672	French Language & Culture 1	12	4
HUB673	French Language & Culture 2	12	4
HUB674	French Language & Culture 3	12	4
HUB675	French Language & Culture 4	12	4

Note: Students without prior language studies undertaking 72 credit points only may not meet language proficiency requirements.

FRENCH MINOR¹⁵

(72 credit points) – Students who have studied French to Year 12 or equivalent

HUB672	French Language & Culture 1	12	4
HUB673	French Language & Culture 2	12	4
HUB674	French Language & Culture 3	12	4
HUB675	French Language & Culture 4	12	4
HUB676	French Language & Culture 5	12	4
HUB677	French Language & Culture 6	12	4

FRENCH MAJOR¹⁵

(96 credit points)

As for the minor program plus 24 credit points from the following:

HUB647	In-Country Summer School or Equivalent	24	
HUB648	In-Country Summer School or Equivalent	48	
HUB676	French Language & Culture 5 (if not included in minor)	12	4
HUB677	French Language & Culture 6 (if not included in minor)	12	4
HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3

FRENCH EXTENDED MAJOR¹⁵

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

GEOGRAPHY MINOR (Subject to approval)

(72 credit points)

HUB201	People & the Natural Environment	12	3
HUB202	Introduction to Geography	12	3
HUB207	Environmental Hazards	12	3
HUB683	Australian Geographical Studies	12	3
HUB685	Resources Planning & Development	12	3

Plus one of the following elective units:

HUB612	Modern Indonesian Studies	12	3
HUB617	Women, Aid & Development	12	3
HUB626	Contemporary South East Asia	12	3
HUB630	Geography of East Asia	12	3

GEOGRAPHY MAJOR

(96 credit points)

As for the minor program plus an additional 24 credit points in elective units from the above list.

GERMAN MINOR¹⁵

(72 credit points) – Students who have not studied German to Year 12 or equivalent

HUB735	Introductory German 1	12	4
HUB736	Introductory German 2	12	4
HUB737	German Language & Culture 1	12	4
HUB738	German Language & Culture 2	12	4
HUB739	German Language & Culture 3	12	4
HUB740	German Language & Culture 4	12	4

Note: Students without prior language studies undertaking 72 credit points only may not meet language proficiency requirements.

¹⁵ This discipline area is not available to students commencing studies in 1995.

GERMAN MINOR¹⁵

(72 credit points) – Students who have studied German to Year 12 or equivalent

HUB737	German Language & Culture 1	12	4
HUB738	German Language & Culture 2	12	4
HUB739	German Language & Culture 3	12	4
HUB740	German Language & Culture 4	12	4
HUB741	German Language & Culture 5	12	4
HUB742	German Language & Culture 6	12	4

GERMAN MAJOR¹⁵

(96 credit points)

As for the minor program plus 24 credit points from the following:

HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB741	German Language & Culture 5	12	3
HUB742	German Language & Culture 6	12	3
HUB647	In-country Summer School or Equivalent	24	
HUB648	In-country Summer School or Equivalent	48	

GERMAN EXTENDED MAJOR¹³

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

HEALTH MINOR

(72 credit points)

HMB305	Personal Health	12	3
HUB007	Health & Ethics	12	3
PUB327	Health Issues in Australia	12	3
PUB329	Foundations of Health Studies & Health Behaviour	12	3
SSB806	Interpersonal & Group Processes	12	3
SSB922	Social & Cultural Aspects of Health	12	3

HEALTH MAJOR

(96 credit points)

As for the minor program plus two of the following:

HMB332	Health Related Fitness	12	3
HMB333	Child & Adolescent Health	12	3
PUB334	Food for Health	12	3
PUB335	Occupational & Environmental Health	12	3
PUB336	Women's Health	12	3
PUB337	Health Needs of Specific Populations	12	3
PUB338	Substance Use in Contemporary Society	12	3
SSB807	Human Sexuality	12	3
SSB989	Health & the Life-Cycle	12	3

HISTORY MINOR (Subject to approval)

(72 credit points)

Students study one asterisked unit selected from each of the four areas listed below, plus any two other units (asterisked or not) selected from the entire listing.

Area (1) Ancient History

HUB721*	The Classical World	12	3
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Area (2) Australian History

HUB600*	Australian Society & Culture	12	3
HUB680	Approaches to Australian Studies	12	3
HUB690*	Themes in Australian History	12	3

¹³ Only one independent study is permitted. Students should consult with the Faculty of Education office prior to enrolling. The Independent Study Guide and application form are available from the Faculty office.¹⁵ This discipline area is not available to students commencing studies in 1995.

HUB692*	Conspiracy & Dissent in Australian History	12	3
HUB693	Australian Race Relations	12	3
HUB700	Aboriginal & Torres Strait Islander Culture	12	3

Area (3) Asian/Pacific Rim History

HUB610*	Approaches to Asia/Pacific Basin Studies	12	3
HUB628*	Modern Japan	12	3
HUB629*	Modern China	12	3
HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB619	Pacific Culture Contact	12	3
HUB620	The Pacific Since 1945	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3

Area (4) European History

HUB720*	Approaches to European Studies	12	3
HUB722*	Foundations of Modern Europe	12	3
HUB723*	Europe in the Twentieth Century	12	3

HISTORY MAJOR

(96 credit points)

As for the minor program plus 24 additional credit points selected from the above list.

HOME ECONOMICS MINOR

(72 credit points)

PUB313	Design	12	3
PUB317	Management & Consumer Studies	12	4
PUB319	Food & Nutrition	12	6
PUB321	Textiles 1	12	6
PUB323	Home Economics: Social Foundations	12	4
PUB325	Shelter Studies	12	4

HOME ECONOMICS MAJOR

(96 credit points)

As for the minor program plus two of the following elective units:

PUB331	Shelter Studies 2	12	4
PUB349	Families & Households in Australia	12	4
PUB353	Consumer Food	12	4
PUB355	Food Service: Principles & Practices	12	4
PUB357	Nutrition Issues in Australia	12	4
PUB361	Textiles 2	12	4
PUB365	Evolution of Western Dress	12	3
PUB381	Introduction to Apparel Design & Production	12	6
PUB474	Food Studies	12	5

HOME ECONOMICS EXTENDED MAJOR

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

INDONESIAN MINOR¹⁵

(72 credit points) – Students who have not studied Indonesian to Year 12 or equivalent

HUB650	Introductory Indonesian 1	12	4
HUB651	Introductory Indonesian 2	12	4
HUB652	Indonesian Language & Culture 1	12	4
HUB653	Indonesian Language & Culture 2	12	4
HUB654	Indonesian Language & Culture 3	12	4
HUB655	Indonesian Language & Culture 4	12	4

Note: Students without prior language studies undertaking 72 credit points only may not meet language proficiency requirements.

¹⁵ This discipline area is not available to students commencing studies in 1995.

INDONESIAN MINOR¹⁵

(72 credit points) – Students who have studied Indonesian to Year 12 or equivalent

HUB652	Indonesian Language & Culture 1	12	4
HUB653	Indonesian Language & Culture 2	12	4
HUB654	Indonesian Language & Culture 3	12	4
HUB655	Indonesian Language & Culture 4	12	4
HUB647	In-country Summer School or Equivalent	24	

OR Cross-institutional enrolment

INDONESIAN MAJOR¹⁵

(96 credit points)

As for the minor program plus 24 credit points from the following:

HUB610	Approaches to Asia/Pacific Basin Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB647	In-country Summer School or Equivalent	24	
HUB648	In-country Summer School or Equivalent	48	

INDONESIAN EXTENDED MAJOR¹³

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

JAPANESE MINOR¹⁵

(72 credit points) – Students who have not studied Japanese to Year 12 or equivalent

HUB660	Introductory Japanese 1	12	4
HUB661	Introductory Japanese 2	12	4
HUB662	Japanese Language & Culture 1	12	4
HUB663	Japanese Language & Culture 2	12	4
HUB664	Japanese Language & Culture 3	12	4
HUB665	Japanese Language & Culture 4	12	4

Note: Students without prior language studies undertaking 72 credit points only may not meet language proficiency requirements.**JAPANESE MINOR¹⁵**

(72 credit points) – Students who have studied Japanese to Year 12 or equivalent

HUB662	Japanese Language & Culture 1	12	4
HUB663	Japanese Language & Culture 2	12	4
HUB664	Japanese Language & Culture 3	12	4
HUB665	Japanese Language & Culture 4	12	4
HUB666	Japanese Language & Culture 5	12	4
HUB667	Japanese Language & Culture 6	12	4

JAPANESE MAJOR¹⁵

(96 credit points)

As for the minor program plus 24 credit points from the following:

HUB610	Approaches to Asia/Pacific Basin Studies	12	3
HUB615	Modern China & Japan	12	3
HUB647	In-country Summer School or Equivalent	24	
HUB648	In-country Summer School or Equivalent	48	
HUB666	Japanese Language & Culture 5 (if not included in minor)	12	4
HUB667	Japanese Language & Culture 6 (if not included in minor)	12	4

JAPANESE EXTENDED MAJOR¹⁵

(120 credit points)

As for the major program plus 24 additional credit points selected from the above list.

LEGAL STUDIES MINOR

(72 credit points)

JSS001	The Law & Legal Institutions	12	3
JSS002	Law of Contract	12	3

¹⁵ This discipline area is not available to students commencing studies in 1995.

JSS003	Law of Torts	12	3
JSS004	Criminal Law & Procedure	12	3
JSS005	Individual Legal Responsibilities	12	3
Plus one of the following elective units:			
ALB107	Legal Environment of Business	12	3
JSS006	Introduction to Law & Social Justice	12	3

LEGAL STUDIES MAJOR

(96 credit points)

ALB107	Legal Environment of Business	12	3
JSS001	The Law & Legal Institutions	12	3
JSS002	Law of Contract	12	3
JSS003	Law of Torts	12	3
JSS004	Criminal Law & Procedure	12	3
JSS005	Individual Legal Responsibilities	12	3

Plus two of the following elective units:

JSS006	Introduction to Law & Social Justice	12	3
ALB101	Commercial Law	12	3

OR Any two law-related units (totalling 24 credit points), selected in consultation with the BEd legal studies subject coordinator, once a letter of approval has been obtained from the Faculty offering the unit.

LEGAL STUDIES EXTENDED MAJOR

(120 credit points)

As for the major program plus a further two law-related units (totalling 24 credit points), selected in consultation with the BEd legal studies subject coordinator.

MATHEMATICS MINOR

(72 credit points)

MAB212	Mathematics 1	12	4
MAB222	Mathematics 2	12	4
MAB422	Topics in Mathematics	12	4

Select one of the following units:

MAB237	Statistics	12	4
MAB347	Statistics 1A ²	12	4

Plus two of the following elective units:

MAB232	Discrete Mathematics	12	4
MAB321	Computational Mathematics 1	12	4
MAB342	Mathematics of Finance	12	4
MAB348	Statistics 1B	12	4
MAB630	Linear Algebra & Its Applications	12	4
MAB632	Mathematical Modelling ²	12	4
MAB637	Operations Research 1A	12	4

MATHEMATICS MAJOR

(96 credit points)

As for the minor program plus an additional 24 credit points selected from the above list.

MATHEMATICS EXTENDED MAJOR

(120 credit points)

As for the major program plus an additional 24 credit points selected from the above list.

PHYSICAL EDUCATION MINOR

(72 credit points)

LSB131	Anatomy	12	6
LSB231	Physiology	12	6

² Subject to final approval.

HMB171	Fitness Health and Wellness	12	3
HMB271	Motor Control and Learning	12	4
HMB313	Socio-Cultural Foundations of Physical Activity	12	4

Plus one unit from either Group A or Group B:

Group A:

HMB272	Biomechanics	12	4
HMB273	Exercise Physiology	12	4
HMB274	Functional Anatomy	12	4

Group B:

HMB314	Performance Skills 1	12	6
HMB315	Performance Skills 2	12	6
HMB316	Performance Skills 3	12	6

PHYSICAL EDUCATION MAJOR

(96 credit points)

HMB171	Fitness Health & Wellness	12	3
HMB271	Motor Control and Learning	12	4
HMB313	Socio-Cultural Foundations of Physical Activity	12	4
LSB131	Anatomy	12	6
LSB231	Physiology	12	6

Plus either:

one unit from Group A and two units from Group B or
two units from Group A and one unit from Group B

PHYSICAL EDUCATION EXTENDED MAJOR

(120 credit points)

HMB171	Fitness Health & Wellness	12	3
HMB271	Motor Control and Learning	12	4
HMB313	Socio-Cultural Foundations of Physical Activity	12	4
LSB131	Anatomy	12	6
LSB231	Physiology	12	6

Plus either:

three units from Group A and two units from Group B or
two units from Group A and three units from Group B or
two units from Group A.

Two units from Group B and one elective selected in consultation with the BEd Physical Education strand Coordinator from either the following list of electives units, or from approved units offered in the Bachelor of Applied Science (HMS) or the Bachelor of Education (In-Service) offerings.

HMB317	Outdoor Education	12	6
HMB321	Sport in Society	12	3
HMB324	Advanced Performance Laboratories	12	3
HMB337	Organisation & Management of PE & Sport	12	3

PHYSICAL EDUCATION DOUBLE MAJOR

(168 credit points)

As for the Extended Major plus an additional 48 credit points in consultation with the BEd Physical Education Strand Coordinator. Students are advised that this option is recommended only for those students who are not seeking employment with the Queensland Department of Education.

PHYSICAL ACTIVITY MINOR

(48 credit points)

Subject to appropriate pre-requisite discipline units being completed a minor in physical activity may be undertaken.

Minor studies are grouped in closely related discipline areas such as:

Physical Activity and Disability

HMB371	Motor Control & Learning 2	12	4
HMB375	Adapted Physical Activity	12	4
HMB376	Motor Development in Children	12	4
HMB382	Exercise Prescription	12	4

Sport Studies

HMB275	Exercise and Sport Psychology	12	3
HMB321	Sport in Society	12	3
HMB364	Seminars in Human Movement	12	4
HMB377	Children in Sport	12	4

Movement Rehabilitation

HMB372	Biophysical Bases of Movement Rehabilitation	12	4
HMB374	Psychology of Rehabilitation	12	4
HMB382	Exercise Prescription	12	4
HMB384	Injury Prevention & Rehabilitation	12	4

PHYSICS MINOR

(72 credit points)

MAB212	Mathematics 1	12	4
PHB122	Physics 1	12	5
PHB222	Physics 2	12	5
SCB202	Science, Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science

Strand coordinator:

MAB222	Mathematics 2 ²	12	5
PHB322	Physics 3A	12	5
PHB332	Physics 3B	12	5
PHB342	Physics 3C	12	5
PHB422	Physics 4A	12	5
PHB432	Physics 4B	12	5
PHB462	Experimental Physics 4	12	5
PHB512	Project	12	5
PHB542	Applied Acoustics	12	5
PHB562	Physical Methods of Analysis	12	5
PHB642	Applied Radiation & Health Physics ²	12	5
PHB662	Topics in Physics	12	5
SCB222	Exploration of the Universe	12	5

PHYSICS MAJOR

(96 credit points)

As for the minor program plus 24 additional credit points selected in consultation with the BEd science strand coordinator.

PHYSICS EXTENDED MAJOR

(120 credit points)

As for the major program plus 24 additional credit points selected in consultation with the BEd science strand coordinator.

SCIENCE STUDIES MINOR

(72 credit points)

CHB182	Chemistry 1	12	6
ESB122	Physical Geology	12	5
LSB118	Introduction to Life Sciences	12	6
SCB202	Science Technology & Society	12	5
SCB222	Exploration of the Universe	12	5

² Subject to final approval.

Select one unit from the following:

PHB122	Physics 1	12	5
PHB150	Physics 1H	12	6

SCIENCE STUDIES MAJOR

(96 credit points)

As for minor plus any two units not already completed from the following list:

SCIENCE STUDIES EXTENDED MAJOR

(120 credit points)

As for Minor plus any four units not already completed from the following list:

CHB282	Chemistry 2 ²	12	6
CHB402	Chemicals in Society	12	5
ESB222	Historical Geology ²	12	5
ESB432	Geomorphology & Sedimentary Geology ²	12	5
LSB222	Biology 2	12	5
LSB228	Animal & Plant Structure & Function ²	12	5
LSB238	Cell & Molecular Biology 1 ²	12	5
LSB452	Marine Studies	12	5
LSB485	Australian Biology	12	3

Select one unit from the following:

PHB222	Physics 2	12	5
PHB263	Physics 2E ²	12	6

Students undertaking Science Studies and a Senior Science as their two curriculum areas should ensure that Science Studies units which are prerequisites for Senior Science units are taken prior to enrolling in the senior units.

Students entering this course without a Sound Achievement in Senior Biology, Chemistry or Physics, need to take the respective Introductory Biology (LSB001), Chemistry (CHB001) or Physics (PHB001) unit. Students should take these units as part of the Z curriculum strand.

SOCIAL SCIENCE MINOR (all subject to approval)

(72 credit points)

HUB313	Australian Studies	12	3
HUB617	Women, Aid & Development	12	3
HUB694	Australian Politics	12	3
HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
HUB772	Introduction to Politics: Political Ideologies	12	3

Plus one of the following elective units:

HUB610	Approaches to Asia/Pacific Basin Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB620	The Pacific Since 1945	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3
HUB623	Asia/Pacific Political Studies	12	3
HUB626	Contemporary South East Asia	12	3
HUB628	Modern Japan	12	3
HUB629	Modern China	12	3
HUB680	Approaches to Australian Studies	12	3
HUB682	Social Movements in Australia	12	3
HUB683	Australian Geographical Studies	12	3
HUB693	Australian Race Relations	12	3
HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3

² Subject to final approval.

SOCIAL SCIENCE MAJOR
(96 credit points)

As for the minor program plus 24 additional credit points in elective units selected from the above list.

■ Bachelor of Teaching (Early Childhood/Primary)

Course Discontinued: The Bachelor of Teaching (Early Childhood/Primary) course has been phased out and replaced by the Bachelor of Education (Pre-service) course. There will be no further intake into the Bachelor of Teaching course. Students who have not yet completed course requirements should contact the Course Coordinator or the Faculty Office for advice on an enrolment program. Students will be required to complete equivalent units from the Bachelor of Education (Preservice) course.

Location: Kelvin Grove campus

Total Credit Points: 288

Course Coordinator: Mr John Cook

■ Bachelor of Teaching External Child Care Upgrading Program (ED42)

Location: Kelvin Grove campus

Course Duration: 2.5 years external

Course Coordinator: Ms June Kean

Total Credit Points: 144

Special Requirements

Applicants for the external upgrading program (equivalent to 18 months of full-time study) are required to have had experience in an early childhood care and education service of at least the equivalent of one year of full-time employment; and successful completion of the Associate Diploma in Child Care (BCAE) or Associate Diploma of Education (TAFE) or a relevant qualification in child care, education, health or social work equivalent to at least two years full-time study at tertiary level.

Course Structure

	Credit Points
Year 1, Semester 2 (July-November)	
EAB501 Advanced Child Care Development & Learning	16
EAB502 Advanced Curriculum Theory & Design for Child Care	16
Year 2, Semester 1 (February-June)	
EAB103 Australian Families & Early Education	8
EAB503 Teaching Strategies for Child Care	16
Year 2, Semester 2 (July-November)	
EAB504 Programs & Teaching Strategies for Children Under Three Years	16
EAB505 Learning Teaching & Integrated Curriculum for 3-5 years	16
Summer School (3 weeks within the November-January period)	
EAB506 Field Project (Children 0-5 years)	16

Year 3, Semester 1 (February-June)

EAB144	Integrating the Exceptional Child in Early Childhood	8
EAB507	Early Childhood Leadership & Management in the Sociocultural Context	16

Year 3, Semester 2 (3 weeks within the July-November period)

EAB508	Field Project (Children 0-12 years)	16
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FACULTY OF HEALTH

HEALTH

Courses

■ Master of Applied Science (Research) (HL84)	471
■ Master of Health Science (HL88)	472
■ Master of Nursing (NS85)	475
■ Master of Public Health (PU85)	478
■ Graduate Diploma in Nursing (NS64)	481
■ Graduate Diploma in Health Promotion (PU69)	482
■ Graduate Diploma in Nutrition and Dietetics (PU62)	483
■ Graduate Diploma in Occupational Health and Safety (PU65)	485
■ Bachelor of Applied Science (Honours) (HL52)	
Bachelor of Business (Honours) (HL58)	
Bachelor of Nursing (Honours) (HL50)	486
■ Bachelor of Applied Science (Environmental Health) (PU42)	487
■ Bachelor of Applied Science (Home Economics) (PU49)	488
■ Bachelor of Applied Science (Human Movement Studies) (HM42)	489
■ Bachelor of Applied Science (Occupational Health and Safety) (PU44)	491
■ Bachelor of Applied Science (Optometry) (OP42)	492
■ Bachelor of Applied Science (Podiatry) (PU45)	493
■ Bachelor of Business (PU48)	495
■ Bachelor of Nursing (Postregistration) (NS48)	497
■ Bachelor of Nursing (Preregistration) (NS40)	499

FACULTY OF HEALTH

Course Structure

■ Master of Applied Science (Research) (HL84)

See entry under University-wide and Interfaculty courses.

Location: Kelvin Grove campus

Course Duration: 1-2 years full-time, 2-4 years part-time (see further details below)

Course Coordinator: For further information on the Master of Applied Science (Research), contact the Faculty of Health office.

Entry Requirements

The minimum academic qualifications for admission to the program are:

- ☐ possession of a Bachelor degree in health science, applied science or other approved degree from the Queensland University of Technology, or
- ☐ possession of an equivalent qualification, or
- ☐ submission of such other evidence of qualifications as will satisfy the academic board that the applicant possesses the capacity to pursue the course of study.

Application for Admission

The Master of Applied Science (Research) program is administered by the Health Faculty Academic Board through its Faculty Research Committee.

Applications for admission should set out fully the candidate's intended course of study. This proposal should include the area of study, the coursework to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan.

Approval of applications is subject to receipt of a statement of support from the Head of School and Director of Centre in which the proposed research program is to be undertaken.

Course of Study

A candidate for the degree of Master of Applied Science undertakes a program of research and investigation on a topic approved by the Faculty Research Committee.

A candidate may be required to undertake an appropriate course of study concurrently with the research program. The course of study normally includes:

- ☐ a program of assessed coursework
- ☐ participation on University scholarly activities such as research seminars, teaching and publication
- ☐ regular face-to-face interaction with supervisors, and
- ☐ a program of supervised research and investigation.

Duration of Course

The length of the course will vary depending on the applicant's qualifications on admission and the candidate's progress during the course.

Applicants who possess a three year undergraduate qualification or equivalent normally are enrolled as provisional students for a period of 1 year (full-time) or 2 years (part-time). Applicants who possess a four year degree, honours year or equivalent may be admitted with confirmed candidature.

Following confirmation of registration, candidates may submit their thesis for examination after a period of at least 1 year (full-time) or 2 years (part-time). Maximum periods for submission of thesis are 2 years (full-time) or 4 years (part-time) from the date of confirmed registration.

■ Master of Health Science (HL88)

Location: Kelvin Grove campus

Course Duration: 1.5 years full-time, 3 years part time

Total Credit Points: 144

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Dr Mary-Lou O'Connor

Entry Requirements

To be eligible for entry applicants should hold:

- (i) an appropriate three-year bachelor degree or equivalent and should normally have at least one year of appropriate work experience, or
- (ii) an appropriate three-year bachelor degree with an additional one year of honours, or
- (iii) an appropriate four-year bachelor degree or equivalent, or
- (iv) an appropriate graduate diploma, or
- (v) other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities.

Candidates may be required to attend an interview with the relevant Head of the School in which they will complete their research project and thesis in order to establish suitability for entry into the course.

Advanced Standing

Candidates with a four-year degree or three-year degree with an additional one year of honours may be able to obtain advanced standing up to a maximum of 48 credit points for previous study.

Candidates with a Graduate Diploma in Occupational Health and Safety, Nutrition and Dietetics or Health Promotion wanting to continue in these specialisations may be able to obtain advanced standing up to a maximum of 96 credit points for previous study. For candidates undertaking the Graduate Diploma in Health Promotion, there is complete articulation with the Masters degree program. In the case of the Graduate Diplomas in Occupational Health and Safety and Nutrition and Dietetics the articulation is less than complete because of professional requirements for credentialling and registration.

Candidates cannot normally enrol directly in the Masters degree in the areas of Nutrition and Dietetics, Occupational Health Safety or Health Promotion unless they have completed relevant undergraduate qualifications in one of the above areas to the satisfaction of the Course Coordinator. Special consideration may be given to candidates on an individual basis by the Course Coordinator.

Advanced standing is not automatic and will be subject to the approval of the Course Coordinator.

Special Entry

Candidates who do not hold a qualification required of normal entrants may be required to successfully complete a bridging program or pre-requisites prescribed by the Dean in consultation with the relevant Head of School.

Provisional enrolment

Students who do not meet the entry requirements may be admitted on a provisional basis and be required to undertake preliminary coursework and reading as determined by the Course Coordinator. After satisfactory completion of the preliminary studies, students will be admitted to full candidature.

Early Exit From Course

Students who successfully complete the equivalent of one year of full-time study may exit from the program with a Graduate Diploma in Health Science.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
PUP010 Health in Australian Society	12	3
PUN601 Contemporary Health Policies	12	3
Select one of the following units:		
HLN405 Qualitative Research	12	3
MAN009 Experimental Design & Statistical Analysis	12	4
Plus one of the following units:		
LWS006 Health Ethics & the Law	12	3
PUN602 Health Planning Management & Evaluation	12	3
PUN608 Economics & Health	12	3
PUN609 Health Care Finance	12	3
PUN610 Health Services Management	12	3
PUP007 Social & Behavioural Epidemiology	12	3
PUP014 School Health Education	12	3
PUP024 Foundations of Health Education	12	3
PUP025 Community Health Promotion	12	3
PUP140 Communication Theory & Practice for Health Professionals	12	3
Year 1, Semester 2		
HLN001 Literature Review	12	3
Three specialist elective units selected from Lists A-H	36	9
Year 2, Semester 1		
HLN002 Research Project	12	3
HLN003 Thesis Presentation	24	
One specialist elective unit (in appropriate discipline area) selected from List I	12	

Special Elective Units

Note: Elective units will only be offered if sufficient numbers enrol, thus different special elective units may be subject to periodic intakes. Elective units other than those listed can be selected in consultation with the Course Coordinator.

List A: Environmental Health

PUN617 Environmental Health Management I	12	3
PUN619 Environmental Health I	12	3
PUN620 Environmental Health 2	12	3

List B: Health Promotion

PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
PUP023	Program Planning in School & Community Health	12	3

List C: Home Economics

PUN624	Home Economics Food & Nutrition	12	3
PUN625	Home Economics Philosophical Foundations	12	3

Select one of the following units:

PUN622	Clothing: The Human Constructed Environment	12	3
PUN623	Home Economics, the Family & the Politics of Feminism	12	3

List D: Human Movement Studies

HMN601	Exercise & Health Across the Lifespan	12	3
HMN603	Scientific Bases of Human Performance	12	3
HMN604	Social Issues in Sport	12	3

List E: Occupational Health & Safety

PUP116	Ergonomics	12	3
PUP215	Occupational Health & Safety Law & Management 2	12	3
PUP250	Occupational Hygiene	12	3
PUP301	Safety Technology & Practice 2	12	3

List F: Optometry

OPN601	Advanced Contact Lens Studies	12	3
OPN602	Advanced Clinical Methods	12	3
OPN603	Advanced Ocular Pharmacology	12	3

List G: Podiatry

PUN627	Advanced Pharmacology	12	3
PUN628	Clinical Pathology & Diagnosis	12	3
PUN629	General Medicine	12	3

List H: Health Information Management

PUN641	Clinical Data Management	12	3
PUN642	Classification & Casemix in Health	12	3
PUN643	Health Informatics	12	3

List I: One to be selected in the appropriate discipline area

HMN602	Readings in Human Movement Studies	12	3
MEP201	Safety Technology & Practice 1	12	3
OPN604	Paediatric Optometry	12	3
PUN618	Environmental Health Management 2	12	3
PUN626	Home Economics Field Study	12	3
PUN630	Computerised Gait Analysis	12	3
PUN631	Podiatric Surgery	12	3
PUN644	Case Studies in Health Information Management	12	3
PUP022	Health Promotion Concepts & Policy: A Critical Analysis	12	3
PUP415	Occupational Health	12	3

Part-Time Course Structure**Year 1, Semester 1**

PUP010	Health in Australian Society	12	3
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Select one of the following units:

HLN405	Qualitative Research	12	3
MAN009	Experimental Design & Statistical Analysis	12	4

Year 1, Semester 2

Select one of the following groupings:

HMN603	Scientific Bases of Human Performance	12	3
HMN604	Social Issues in Sport	12	3
OPN602	Advanced Clinical Methods	12	3
OPN603	Advanced Ocular Pharmacology	12	3
PUN624	Home Economics Food & Nutrition	12	3
PUN625	Home Economics Philosophical Foundations	12	3

PUN617	Environmental Health Management 1	12	3
PUN619	Environmental Health 1	12	3
PUN627	Advanced Pharmacology	12	3
PUN629	General Medicine	12	3
PUN641	Clinical Data Management	12	3
PUN642	Classification & Casemix in Health	12	3
PUP116	Ergonomics	12	3
PUP215	Occupational Health & Safety Law & Management 2	12	3
PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3

Year 2, Semester 1

PUN601	Contemporary Health Policies	12	3
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Select one of the following units:

LWS006	Health, Ethics & the Law	12	3
PUN602	Health Planning Management & Evaluation	12	3
PUN608	Economics & Health	12	3
PUN609	Health Care Finance	12	3
PUN610	Health Services Management	12	3
PUP007	Social & Behavioural Epidemiology	12	3
PUP014	School Health Education	12	3
PUP024	Foundations of Health Education	12	3
PUP025	Community Health Promotion	12	3
PUP140	Communication Theory & Practice for Health Professionals	12	3

Year 2, Semester 2

HLN001	Literature Review	12	3
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Select one of the following units:

HMN601	Exercise & Health Across the Lifespan	12	3
OPN601	Advanced Contact Lens Studies	12	3
PUN620	Environmental Health 2	12	3
PUN622	Clothing: The Human Constructed Environment	12	3
PUN623	Home Economics, the Family & the Politics of Feminism	12	3
PUN628	Clinical Pathology & Diagnosis	12	3
PUN643	Health Informatics	12	3
PUP023	Program Planning in School & Community Health	12	3
PUP250	Occupational Hygiene	12	3

Year 3, Semester 1

HLN002	Research Project	12	3
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Select one of the following units:

HMN602	Readings in Human Movement Studies	12	3
MEP201	Safety Technology & Practice 1	12	3
OPN604	Paediatric Optometry	12	3
PUN618	Environmental Health Management 2	12	3
PUN626	Home Economics Field Study	12	3
PUN630	Computerised Gait Analysis	12	3
PUN631	Podiatric Surgery	12	3
PUN644	Case Studies in Health Information Management	12	3
PUP022	Health Promotion Concepts & Policies: A Critical Analysis	12	3
PUP415	Occupational Health	12	3

Year 3, Semester 2

HLN003	Thesis Presentation	24	
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■ Master of Nursing (NS85)

Location: Kelvin Grove Campus

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48**Course Coordinator:** Dr Angela Cushing**Entry Requirements****NORMAL ENTRY**

Applicants shall hold a Bachelor Degree in Nursing (or equivalent) and shall normally have had at least one year of appropriate postregistration clinical experience.

Applicants may be required to attend an interview with the Head of School and/or Course Coordinator to establish suitability for entrance into the course.

Applicants must hold a qualification in nursing acceptable for registration by the Nurses Registration Board of Queensland.

SPECIAL ENTRY

Applicants who do not hold the specific tertiary qualification required of normal entrants may be admitted upon successful completion of a qualifying program prescribed by the Head of School.

Course Requirements

Students are required to complete:

- ☐ three compulsory units
- ☐ three clinical units (clinical specialisation or clinical studies)
- ☐ two approved elective units
- ☐ three step-locked dissertation units or a clinical project and two appropriate electives

Note: This course has undergone restructuring. Students who commenced this course prior to 1995 should contact the Course Coordinator to review details of their enrolment program for 1995.

**Full-Time Course Structure
(Commencing 1995)****Year 1, Semester 1**

	Credit Points	Contact Hrs/Wk
NSN501 Advanced Clinical Strategies	12	3
NSN502 Nursing Knowledge	12	3
Select one of the following units:		
NSN521 Clinical Specialisation 1	12	
NSN581 Clinical Studies 1	12	
Select one of the following units:		
HLN405 Qualitative Research	12	3
MAN009 Experimental Design & Statistical Analysis	12	4
NSN505 Quantitative Approaches to Nursing Research	12	3

Year 1, Semester 2

Select one of the following units:

NSN522 Clinical Specialisation 2	12	
NSN582 Clinical Studies 2	12	
Select one of the following units:		
NSN523 Clinical Specialisation 3 ¹	12	
NSN583 Clinical Studies 3	12	
Elective Unit (to be selected from List A)	12	
Select one of the following units:		
Elective Unit (to be selected from List B)	12	
NSN411 Research Seminar	12	3

¹ Clinical Specialisation 3 will normally be undertaken as a block clinical practicum following semester.

Year 2, Semester 1

Select one of the following options:

Option 1

NSN406	Dissertation ²	24	
NSN412	Research Project	12	
	Elective Unit (to be selected from List C)	12	

Option 2

NSN506	Clinical Project	24	
	Elective Unit (to be selected from List C)	12	
	Elective Unit (to be selected from List C)	12	

Part-time Course Structure**Year 1, Semester 1**

NSN501	Advanced Clinical Strategies	12	3
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Select one of the following units:

NSN521	Clinical Specialisation 1	12	
NSN581	Clinical Studies 1	12	

Year 1, Semester 2

Select one of the following units:

NSN522	Clinical Specialisation 2	12	
NSN582	Clinical Studies 2	12	

Select one of the following units:

NSN523	Clinical Specialisation 3 ¹	12	
NSN583	Clinical Studies 3	12	

Year 2, Semester 1

NSN502	Nursing Knowledge	12	3
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Select one of the following units:

HLN405	Qualitative Research	12	3
MAN009	Experimental Design and Statistical Analysis	12	4
NSN505	Quantitative Approaches to Nursing Research	12	3

Year 2, Semester 2

	Nursing elective (to be selected from List A)	12	
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Select one of the following units:

NSN411	Research Seminar	12	3
	Elective Unit (to be selected from List B)	12	

Year 3, Semester 1

Select one of the following options:

Option 1

NSN412	Research Project	12	
	Elective Unit (to be selected from List C)	12	

Option 2

	Elective Unit (to be selected from List C)	12	
	Elective Unit (to be selected from List C)	12	

Year 3, Semester 2

Select one of the following units:

NSN406	Dissertation ²	24	
NSN506	Clinical Project	24	

¹ Clinical Specialisation 3 will normally be undertaken as a block clinical practicum following semester.² To be eligible to undertake the dissertation students must have completed (Qualitative Research) and (Quantitative Approaches to Nursing Research or Experimental Design and Statistical Analysis).

Elective lists

List A

NSN505	Quantitative Approaches to Nursing Research	12	3
HLN405	Qualitative Research	12	3
NSN507	Contemporary Issues in Nursing	12	
NSN508	Advanced Readings in Nursing	12	
NSN509	Special Topic	12	

List B

PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
PUN643	Health Informatics	12	3
	Any other 12 credit point postgraduate unit for which students have the necessary prerequisites		

List C

LWS006	Health Ethics and the Law	12	3
PUN610	Health Services Management	12	3
PUP025	Community Health Promotion	12	3
PUP140	Communication Theory and Practice for Health Professionals	12	3
	Any other 12 credit point postgraduate unit for which students have the necessary prerequisites.		

Note: Students are required to undertake Clinical Specialisation 1, 2 and 3 or Clinical Studies 1, 2 and 3.

■ Master of Public Health (PU85)

QUT, Griffith University and The University of Queensland offer a joint Master of Public Health (MPH) degree, bringing together interdisciplinary knowledge and skills in public health across the three universities. Students enrol in and graduate from the university in which they undertake their specialist elective units and which supervises their dissertation.

Location: Kelvin Grove campus

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Don Stewart

Entry Requirements

The entry requirements for the Master of Public Health are identical for the three collaborating institutions, and are as follows:

- (1) A person may first enrol as a candidate for the degree only if that person:
 - (i) holds a bachelor degree from the university or a similar qualification from an approved institution in the health, behavioural, social or biological sciences with first or second class honours, and
 - (a) which required study for at least four years, or
 - (b) which required study for at least three years, if
 - (A) a postgraduate diploma from the university or an approved institution is also held, or
 - (B) the research publications and written reports of that person satisfy the Faculty Academic Board that the applicant should be accepted as a candidate, and

- (ii) has, since obtaining the qualifications required, had training or experience in a relevant field for a period of at least
 - (a) three years, where the applicant seeks entry through paragraph (i) (b) (B), or
 - (b) two years, otherwise.
- (2) The Dean may allow a person to be admitted as a candidate, if of the opinion:
 - (i) that a person has obtained a basic professional qualification in the health, behavioural, social or biological sciences in that person's home country
 - (ii) that person has subsequently had at least four years of relevant professional experience, which may include a post-basic diploma or other relevant training, and
 - (iii) the qualifications and experience referred to above warrant admission.
- (3) Notwithstanding subrules (1) and (2), a person may not be admitted without first satisfying the Dean, if necessary, by passing an examination, that the person has both the level of scientific understanding and the level of proficiency in the English language to undertake the course successfully.
- (4) For the purposes of subrule (1) an approved institution is one which, in the opinion of the Faculty Academic Board, maintains standards comparable to those of the university.

Application for Admission

Students enrol at the university in which they expect to undertake their specialist elective units and in which their dissertation will be supervised. Because this choice must be made before enrolment, a person seeking entry to the degree of Master of Public Health must, prior to application for admission, consult the Directorate of the MPH program.

Course of Study

- (1) A candidate must:
 - (i) pursue the course (full-time) for not less than three nor more than six semesters, and
 - (ii) obtain 144 credit points (48 per semester full-time, 24 part-time) comprising:
 - (a) credit for all units listed in Part A of the Schedule (core units), and
 - (b) 24 credit points from units listed in Part B of the Schedule (units), and
 - (c) 48 credit for PUN600 Dissertation (full-time) or PUN607 Dissertation (part-time).
- (2) The Dean of Health may grant credit for a core unit if the Director considers the candidate has, while enrolled in this course, passed a unit or units at least its equivalent in content and standard at any of the three collaborating institutions.

Credit for a Unit

To obtain credit for a unit a candidate must:

- (i) attend lectures, seminars, tutorials, practicals and other classes
- (ii) undertake laboratory and fieldwork
- (iii) complete assignments, project reports and theses
- (iv) pass examinations, and
- (v) fulfil any other requirement in the manner and to the extent prescribed by the Director concerned.

Dissertation

- (1) A candidate may not submit a dissertation for PUN600 Dissertation (full-time) or PUN607 Dissertation (part-time) without approval of the topic by the Director of the program after consultation with the supervisors.
- (2) The dissertation must be examined by two examiners appointed by the Director.
- (3) A candidate may, with the approval of the Director, submit further original work, whether published or not, for the consideration of the examiners.
- (4) The Director shall determine whether credit will be awarded for the dissertation after considering the reports of the examiners.

Power of the Faculty Board to Terminate Enrolment

The Faculty Academic Board may, at any time, terminate a candidate's enrolment if it is of the opinion that the candidate has supplied incomplete or inaccurate information with respect to application for enrolment.

Grant of Degree

The Master of Public Health degree may be conferred on a candidate who has fulfilled the requirements of these rules and complied with the provisions of all Statutes and other applicable rules.

Course Structure

Students in the program undertake a coursework component in their first two semesters (full-time) or four semesters (part-time – two units per semester), followed by a dissertation component of one semester (full-time) or two semesters (part-time). The coursework component comprises six core units and two advanced elective units.

PART A		Credit Points	Contact Hrs/Wk
Core Units			
PUN603	Environmental Health (GU)		
PUN604	Principles of Epidemiology (UQ)		
PUN605	Statistical Methods in Public Health (UQ)		
PUN606	Social Theories & Principles of Public Health (GU)		
PUN613	Public Health Interventions – Principles & Practices (QUT)	12	3
PUN692	Health Care Delivery Systems (QUT)	12	3

PART B

Advanced Elective Units Offered by QUT

LWS006	Health, Ethics & the Law	12	3
PUN608	Economics & Health	12	3
PUN609	Health Care Finance	12	3
PUN610	Health Services Management	12	3
PUN611	Advanced Health Planning	12	3
PUN612	Advanced Health Evaluation	12	3
PUP018	Health Promotion Strategies	12	3

(Additional elective units are offered by other collaborating universities.)

PART C

PUN600	Dissertation (full-time)	48
PUN607	Dissertation (part-time)	48

Dissertation

The dissertation is equivalent to an honours dissertation in type and scope and is expected to be between 10,000 and 20,000 words in length.

■ Graduate Diploma in Nursing (NS64)

This course replaces the Graduate Diploma in Advanced Nursing Practice (NS62).

Location: Kelvin Grove campus

Course Duration: 1 year full-time, 2 years part-time.

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: vacant

Entry Requirements

NORMAL ENTRY

Applicants for admission to the course shall hold:

- (i) a nursing qualification acceptable for registration by the Nurses Registration Board of Queensland
- (ii) a degree or diploma in nursing (or equivalent), and
- (iii) normally have at least one year of appropriate post-registration clinical experience.

SPECIAL ENTRY

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Head of School. Such an applicant may be required to undertake appropriate bridging units to be determined at the discretion of the Head of School. The units would normally be selected from areas of study in the Bachelor of Nursing course.

Special Course Requirements

Each student must select one area of specialisation and complete the two units in that area of study. Eight areas of specialisation are offered: Primary Health Care Nursing, Psychiatric/Mental Health Nursing, Midwifery, Gerontological Nursing, Critical Care Nursing, Nephrology Nursing, Oncology Nursing, Peri-operative Nursing.³

Note: This course has undergone restructuring. Students who commenced the Graduate Diploma in Advanced Nursing Practice (NS62) course prior to 1995 should contact the Course Coordinator to review details of their enrolment program for 1995.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
NSN501	Advanced Clinical Strategies	12	3
NSN502	Nursing Knowledge	12	3
Select one of the following units:			
NSN521	Clinical Specialisation 1	12	
NSN581	Clinical Studies 1	12	
Select one of the following units:			
HLN405	Qualitative Research	12	3
MAN009	Experimental Design & Statistical Analysis	12	4
NSN505	Quantitative Approaches to Nursing Research	12	3
Year 1, Semester 2			
Select one of the following units:			
NSN522	Clinical Specialisation 2	12	
NSN582	Clinical Studies 2	12	

³ The availability of clinical units may be subject to periodic intakes.

Select one of the following units:

NSN523	Clinical Specialisation 3 ¹	12	
NSN583	Clinical Studies 3	12	
	Nursing Elective Unit (to be selected from List A)	12	
	Elective Unit (to be selected from List B)	12	

Part-Time Course Structure

Year 1, Semester 1

NSN501	Advanced Clinical Strategies	12	3
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Select one of the following units:

NSN521	Clinical Specialisation 1	12	
NSN581	Clinical Studies 1	12	

Year 2, Semester 2

Select one of the following units:

NSN522	Clinical Specialisation 2	12	
NSN582	Clinical Studies 2	12	

Select one of the following units:

NSN523	Clinical Specialisation 3 ¹	12	
NSN583	Clinical Studies 3	12	

Year 2, Semester 1

NSN502	Nursing Knowledge	12	3
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Select one of the following units:

HLN405	Qualitative Research	12	3
MAN009	Experimental Design & Statistical Analysis	12	4
NSN505	Quantitative Approaches to Nursing Research	12	3

Year 2, Semester 2

	Nursing Elective Unit (to be selected from List A)	12	
	Elective Unit (to be selected from List B)	12	

Elective Lists

List A

HLN405	Qualitative Research	12	3
NSN505	Quantitative Approaches to Nursing Research	12	3
NSN507	Contemporary Issues in Nursing	12	
NSN508	Advanced Readings in Nursing	12	
NSN509	Special Topic	12	

List B

NSN411	Research Seminar	12	3
PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
PUN643	Health Informatics	12	3
	Any other 12 credit point postgraduate unit for which students have the necessary prerequisites.		

Note: Students are required to undertake Clinical Specialisation 1, 2 and 3 or Clinical Studies 1, 2 and 3.

■ Graduate Diploma in Health Promotion (PU69)

Location: Kelvin Grove campus

Course Duration: 2 years part-time internal and external

Total Credit Points: 96

¹ Clinical Specialisation 3 will normally be undertaken as a block clinical practicum following semester.

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Dr Mary-Lou O'Connor

Entry Requirements

To be eligible for admission, an applicant must hold the following:

- (i) an approved degree/diploma, or General Nursing Certificate and two post-basic nursing certificates or equivalent, and
- (ii) at least one year's experience in the field of teaching or community health.

Special Course Requirements

There are three major areas in the course: compulsory units, professional units and elective units. All students are required to complete the compulsory units; however, with the approval of the course coordinator, PUP027 Independent Study (12 credit points) may be substituted for one of the compulsory units. Students can select professional units in the School or Community Health area. The scheduling of elective units is subject to staff availability and student demand.

Students should have access to school or community health settings or appropriate health organisations to enable work to be undertaken.

Note: Students wishing to progress to the Master of Health Science must complete MAN009 Experimental Design and Statistical Analysis for Research or HLN405 Qualitative Research.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PUP010	Health in Australian Society	12	3
PUP022	Health Promotion Concepts & Policies: A Critical Analysis	12	3
Year 1, Semester 2			
PUP007	Social & Behavioural Epidemiology	12	3
PUP024	Foundations of Health Education	12	3
Year 2, Semester 1			
Select one of the following units:			
PUP014	School Health Education	12	3
PUP025	Community Health Promotion	12	3
Select one of the following units:			
HLN405	Qualitative Research	12	3
MAN009	Experimental Design & Statistical Analysis	12	4
PUP012	Program Evaluation	12	3
Year 2, Semester 2			
PUP023	Program Planning in School & Community Health	12	3
	Elective Unit	12	
Elective Units			
Elective unit to be selected from:			
LWS006	Health Ethics & the Law	12	3
PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
PUP027	Independent Study	12	

■ Graduate Diploma in Nutrition and Dietetics (PU62)

Location: Kelvin Grove campus

Course Duration: 1.5 years full-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Sandra Capra

Professional Recognition

Graduates are eligible for membership of the Dietitians Association of Australia. This is the only recognised course for dietitians in Queensland.

Entry Requirements

NORMAL ENTRY

To be eligible for entry an applicant must:

- (i) hold a degree, and
- (ii) have studied two semesters each of systematic human physiology and metabolic biochemistry to the second level. Second level nutrition studies are highly desirable.

Graduate Standing

Where an equivalent course of study or examination cannot be readily established, an applicant, at the discretion of the Dean of Faculty, may be permitted to undertake a qualifying examination, satisfactory completion of which will entitle such person to the status of graduate or diplomate for the purpose of admission.

Note: Applicants should contact the course coordinator, School of Public Health, by letter when lodging the application for admission.

Special Course Requirements

Before entering the third semester of study, students shall have successfully completed all units of the first and second semesters.

Field trips as detailed in Unit Synopses have an attendance requirement and will be assessed.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
PUP109 Nutrition	12	5
PUP110 Nutritional Epidemiology	12	5
PUP126 Clinical Dietetics 1	12	5
Select one of the following units:		
LSB558 Applied Physiology	12	5
PUP140 Communication Theory & Practice for Health Professionals	12	3

Note: The decision as to which of these options is to be pursued will be made after consultation with the course coordinator. Those students with insufficient physiology studies are expected to take LSB558 Applied Physiology.

Year 1, Semester 2

PUP018 Health Promotion Strategies	12	3
PUP127 Clinical Dietetics 2	12	5
PUP128 Practical Dietetics	12	5
PUP129 Food Service & Dietetic Management	12	5

Year 2, Semester 1

PUP122 Practice in Clinical Dietetics	24	11 wks
PUP123 Practice in Community Nutrition	12	4 wks
PUP132 Practice in Food Service Management	12	3 wks

■ Graduate Diploma in Occupational Health and Safety (PU65)

Location: Kelvin Grove campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Terry Farr

Entry Requirements

NORMAL ENTRY

The normal entry requirement for the course is a bachelor degree or equivalent in an appropriate discipline from a recognised tertiary institution. There is no assumption of prior knowledge in occupational health and safety.

SPECIAL ENTRY

Special entry will be considered for a person without a degree, in view of experience and responsibility in occupational health and safety. As the course is academically demanding and high standards of performance are expected, such candidates will require either an extensive background in the discipline or other suitable tertiary qualifications and appropriate experience to be offered a place.

In some instances, preliminary bridging studies may be required.

Additional Requirements

All applications for entry will be judged on their individual merit. Course quota and the benefit of having a diverse class cohort are factors which impact on the final offer of places.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MEP201	Safety Technology & Practice 1	12	3
PUP115	Occupational Health & Safety Law & Management 1	12	3
Year 1, Semester 2			
PUP116	Ergonomics	12	3
PUP215	Occupational Health & Safety Law & Management 2	12	3
Year 2, Semester 1			
PUP415	Occupational Health	12	3
Select one from the following units:			
HLN405	Qualitative Research ⁴	12	3
MAN009	Experimental Design and Statistical Analysis ⁴	12	3
PUP010	Health in Australian Society ⁴	12	3
Year 2, Semester 2			
PUP250	Occupational Hygiene	12	3
PUP301	Safety Technology & Practice 2	12	3

⁴ Elective units other than those listed can be selected in consultation with the Course Coordinator.

■ **Bachelor of Applied Science (Honours) (HL52)**
Bachelor of Business (Honours) (HL58)
Bachelor of Nursing (Honours) (HL50)

Location: Kelvin Grove Campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Mary-Lou O'Connor

Entry Requirements

NORMAL ENTRY

To be eligible for entry, students should have completed the University's Bachelor of Applied Science (HM42, PU42, PU44, PU45, PU49), Bachelor of Business (Health Administration) (PU48) or Bachelor of Nursing (NS40, NS48) or equivalent.

Students should have attained a grade point average (GPA) of at least 5.0 over the pass degree.

Application should be made at the end of the final year of the pass degree or within 18 months of completing that degree.

SPECIAL ENTRY

Applicants who do not satisfy the normal entry requirements but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
HLP101	Advanced Discipline Readings	12	
HLP103/1	Dissertation	12	
Select one of the following units:			
MAN009	Experimental Design & Statistical Analysis	12	4
HLN405	Qualitative Research	12	3
	Elective Unit	12	
Year 1, Semester 2			
HLP102	Research Seminars	12	
HLP103 /2/3/4	Dissertation	36	

Part-Time Course Structure

Year 1, Semester 1

Select one of the following units:

MAN009	Experimental Design & Statistical Analysis	12	4
HLN405	Qualitative Research	12	3
	Elective Unit	12	

Year 1, Semester 2

HLP101	Advanced Discipline Readings	12	
HLP103/1	Dissertation	12	

Year 2, Semester 1

HLP103/2/3	Dissertation	24	
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Year 2, Semester 2

HLP102	Research Seminars	12
HLP103/4	Dissertation	12

Note: Bachelor of Nursing (Honours) (HL50) students are required to complete MAN009 and HLN405.

Elective Units

Students undertake a 12 credit point elective. This may be selected from any honours or postgraduate program offered by the University, subject to prerequisite requirements and with the approval of the student's mentor/supervisor and the course coordinator. Normally the elective unit is chosen from within the student's discipline area or from an area which complements or is germane to the student's study program. Students may also select one of MAN009 Experimental Design and Statistical Analysis for Research or HLN405 Qualitative Research as an elective.

Dissertation

The Dissertation is one unit valued at 48 credit points. It is commenced during semester 1 (full-time mode) or semester 2 (part-time mode) and completed over the course of the program. Preparation and presentation of the Dissertation is completed under the guidance of a supervisor.

■ Bachelor of Applied Science (Environmental Health) (PU42)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Bruce Fleming

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Environmental Health and the Environmental Institute of Australia. This course is the only one available in Queensland from which graduates will be approved by the Director-General of Health to work as an environmental health officer within the State.

Course Requirements

A registered student may enrol only in a full-time program. Arrangements to complete the course through a 'sandwich' program can be discussed with the Course Coordinator. This method of attendance is relevant to students living outside the Brisbane region and those who are employed as trainee Environmental Health Officers. Trainee Environmental Health Officers are permitted a maximum of six years to complete the course.

Field trips as detailed in the Unit Synopses have an attendance requirement and will be assessed.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB142	Chemistry 1	12	6
LSB122	Biology 1	12	5
PHB150	Physics 1H	12	6
PUB207	Introduction to Environmental Health	12	4

Year 1, Semester 2

CHB242	Chemistry 2	12	6
MAB152	Quantitative Methods	8	3
PHB263	Physics 2E	12	6
PUB300	Pollution Science 1	8	4
SSB914	Psychology	8	3

Year 2, Semester 1

CNB171	Construction 1	12	6
ISB382	Microcomputer Applications	8	3
LSB142	Human Anatomy & Physiology	12	5
LSB301	Microbiology 1	8	3
PUB301	Environmental Protection 2	8	4

Year 2, Semester 2

CHB411	Environmental Analytical Chemistry	8	4
CNB172	Construction 2	8	4
LSB431	Microbiology 2	8	3
PUB478	Food Science & Technology	12	5
PUB481	Pollution Science 2	12	5

Year 3, Semester 1

CNB013	Building Services 1 – HVAC	4	2
PSB904	Surveying & Measuring	4	2
PUB210	Occupational Health & Safety 1	8	4
PUB513	Epidemiology & Diseases	12	4
PUB518	Food Hygiene Studies	8	4
PUB520	Environmental Health Management 1	12	5

Year 3, Semester 2

PUB211	Occupational Health & Safety 2	8	4
PUB612	Health Promotion & Education	8	3
PUB620	Environmental Health Management 2	12	6
PUB621	Environmental Health Practice	12	6
PUB622	Environmental Health Project	8	4

■ Bachelor of Applied Science (Home Economics) (PU49)**Location:** Kelvin Grove campus**Course Duration:** 3 years full-time**Total Credit Points:** 288**Course Coordinator:** Mr Claus Jehne**Note:** Students who commenced this course prior to 1995 should contact the Course Coordinator for details of their enrolment program.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB149	Principles of Chemistry	12	6
COB160	Professional Communication (Business)	12	3
PUB276	Home Economics 1	12	4
SSB961	Australian Society: Introduction to Sociology	12	3
Year 1, Semester 2			
CHB259	Organic Chemistry	12	5
LSB405	Microbiology	12	5
PUB272	Home Economics 2	12	3
SSB912	Psychology	12	3

Year 2, Semester 1

LSB142	Human Anatomy & Physiology	12	5
LSB305	Biochemistry	12	5
PUB372	Shelter Studies 1	12	4
PUB472	Textile Science & Technology	12	4

Year 2, Semester 2

PUB405	Human Nutrition	12	5
PUB474	Food Studies	12	6
PUB478	Food Science & Technology	12	5
PUB572	Apparel Design 1	12	4

Year 3, Semester 1

PUB574	Home Economics 3	12	3
PUB575	Home Economics Practicum	12	
	Elective Unit	12	
	Elective Unit	12	

Year 3, Semester 2

PUB374	Family Studies	12	3
PUB675	Home Economics 4	12	3
	Elective Unit	12	
	Elective Unit	12	

Elective Units

(Subject to availability and demand)

PUB331	Shelter Studies 2	12	4
PUB441	Nutrition Education	12	3
PUB540	The Home Economist as Counsellor	12	3
PUB552	Nutrition Issues in Australia	12	4
PUB558	Food Service Management	12	4
PUB556	Food Presentation & Promotion	12	6
PUB582	Apparel Design 2	12	4
PUB590	Product Development & Marketing	12	3
PUB592	Home Economics Independent Study 1	12	1
PUB594	Home Economics Independent Study 2	12	1

Plus approved units from other degree courses.

■ Bachelor of Applied Science (Human Movement Studies) (HM42)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Andrew Hills

Special Course Requirements

Students must complete units totalling at least 384 credit points including the foundation units (60 credit points), a major and minor study (168 credit points), elective units (60 credit points) and fourth year studies (96 credit points).

A major (120 credit points) must be completed in the discipline area of Exercise and Sport Science. This includes compulsory second level units (72 credit points) and three third level units (36 credit points) selected from Lists A or B.

Subject to appropriate prerequisite units being completed a minor may be undertaken in any approved discipline within QUT. Completion of a minor consists of passing units

totalling at least 48 credit points from second and third levels (including at least 24 credit points at third level). Major and minor studies may be undertaken in the same or closely related discipline areas.

The degree may be awarded with Honours, First Class Honours, Second Class Honours Division A and Second Class Honours Division B. Candidates for the degree with Honours must fulfil the requirements for the pass degree and achieve such a standard of proficiency in all the units of the course as may from time to time be determined by the Academic Board and approved by the Academic Committee.

All commencing students and certain continuing students are required to attend scheduled academic advisory sessions to plan their progression through the course, and to obtain approval of an academic adviser prior to effecting any change of enrolment.

Note: Students who have successfully completed 288 credit points and have met the general requirements for a three-year degree may graduate with a Bachelor of Applied Science.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LSB131	Anatomy	12	6
HMB172	Physical Activity, Nutrition & Weight Control	12	4
HMB313	Socio-Cultural Foundations of Physical Activity	12	4
SSB912	Psychology	12	3
Year 1, Semester 2			
LSB231	Physiology	12	6
HMB171	Fitness, Health & Wellness	12	3
HMB272	Biomechanics	12	4
PUB233	Information, Education & Communication for Health	12	3
Year 2, Semester 1			
HMB271	Motor Control & Learning	12	4
HMB274	Functional Anatomy	12	4
HMB275	Exercise & Sport Psychology	12	3
	Elective Unit	12	
Year 2, Semester 2			
HMB273	Exercise Physiology	12	4
HMB276	Research in Human Movement	12	4
	Major Study 1		
	Minor Study 1		
Year 3, Semester 1			
HMB382	Exercise Prescription	12	4
	Major Study 2	12	
	Minor Study 2	12	
	Elective Unit	12	
Year 3, Semester 2			
	Major Study 3		
	Minor Study 3		
	Major Study 4		
	Minor Study 4		
Year 4, Semester 1			
HMB471	Project 1	12	
HMB473	Practicum 1	12	
	Advanced Elective Unit	12	
	Advanced Elective Unit	12	
Year 4, Semester 2			
HMB472	Project 2	12	
HMB474	Practicum 2	24	
	Advanced Elective Unit	12	

Third Level Units

Note: Students must complete at least three units from List A or three units from List B to complete the major study.

List A (Adapted, Developmental and Rehabilitative Focus)

HMB361	Functional Anatomy 2	12	4
HMB362	Biomechanics 2	12	4
HMB363	Independent Study	12	4
HMB364	Seminars in Human Movement	12	4
HMB371	Motor Control and Learning 2	12	4
HMB372	Biophysical Bases of Movement Rehabilitation	12	4
HMB374	Psychology of Rehabilitation	12	4
HMB375	Adapted Physical Activity	12	4
HMB376	Motor Development in Children	12	4
HMB377	Children in Sport	12	4

List B (Workplace Health Related Fitness Focus)

HMB361	Functional Anatomy 2	12	4
HMB362	Biomechanics 2	12	4
HMB363	Independent Study	12	4
HMB364	Seminars in Human Movement	12	4
HMB381	Exercise Physiology 2 (compulsory)	12	4
HMB383	Workplace Health	12	4
HMB384	Injury Prevention & Rehabilitation	12	4

■ Bachelor of Applied Science (Occupational Health and Safety) (PU44)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Terry Farr

Full-Time Course Structure

Year 1, Semester 1

CHB142	Chemistry 1	12	6
LSB142	Anatomy & Physiology	12	5
PHB150	Physics 1H	12	6
PUB212	Occupational Health & Safety 1	12	4

Year 1, Semester 2

CHB242	Chemistry 2	12	6
MAB152	Quantitative Methods	8	3
PHB263	Physics 2E	12	6
PUB211	Occupational Health & Safety 2	8	4
SSB914	Psychology	8	3

Year 2, Semester 1

ISB382	Microcomputer Applications	8	3
HRB131	Personnel Management & Industrial Relations	12	3
LSB301	Microbiology 1	8	3
MEB035	Safety Technology 1	8	3
PUB482	Occupational Health	12	5

Year 2, Semester 2

CHB411	Environmental Analytical Chemistry	8	4
LSB431	Microbiology 2	8	3

PHB404	Safety Technology 2	12	6
PUB483	Ergonomics 1	8	3
PUB485	Occupational Hygiene 1	12	4
Year 3, Semester 1			
PUB512	Ergonomics 2	12	6
PUB513	Epidemiology & Diseases	12	4
PUB516	Occupational Health & Safety Practice 1	12	6
PUB585	Occupational Hygiene 2	12	6
Year 3, Semester 2			
PUB611	Hazard Assessment & Management	12	4
PUB612	Health Promotion & Education	8	3
PUB613	Occupational Health & Safety Practice 2	8	2
PUB614	Industry Specialisation	8	4
PUB617	Occupational Health & Safety Project	12	3

Cooperative Education Program

A registered student who has completed the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the discretion of the Course Coordinator, undertake the Cooperative Education option. This involves 10-12 months of paid full-time employment in an approved industrial/commercial setting during which time the student is enrolled in PUB695 Industrial Training Experience. On completion of the approved cooperative education placement the student resumes formal third year studies but is not required to complete the units PUB516 Occupational Health & Safety Practice 1 and PUB613 Occupational Health & Safety 2. Approval of enrolment in the cooperative education program is dependent on the availability of places and on individual student performance in the first two years of the course.

■ Bachelor of Applied Science (Optometry) (OP42)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Peter Swann

Professional Recognition

In each State and Territory of Australia, the practice of optometry is regulated by Boards of Optometrical Registration which are statutory bodies set up under States' legislation. Under these Acts, the practice of optometry is restricted to persons whose names appear on the Register. On completion of the degree course at QUT, the graduate will have satisfied the requirements of the Optometrists' Board of Queensland, and may apply for registration to practise as an optometrist in Queensland and all States and Territories of Australia.

Special Course Requirements

The degree may be awarded with Honours, First Class Honours, Second Class Honours Division A and Second Class Honours Division B. Candidates for the degree with Honours must fulfil the requirements for the pass degree and achieve such standard of proficiency in all the units of the course as may from time to time be determined by the Health Academic Board and approved by Academic Committee.

Items of ophthalmic equipment are required by students for clinical use from the beginning of the third and fourth years of the course. Academic staff provide advice regarding the purchase of these instruments. Estimated costs are \$3000.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1 (For students commencing in 1995)**

CHB142	Chemistry 1	12	6
LSB130	Anatomy 1	8	3
LSB161	Biology	8	3
MAB251	Mathematics 1	8	4
PHB122	Physics 1	12	5

Year 1, Semester 2

CHB242	Chemistry 2	12	6
LSB230	Anatomy 2	8	3
OPB210	Optometry 2	4	2
OPB232	Ophthalmic Optics 2	12	4
PHB240	Optics 2	12	7

Year 2, Semester 1 (For students who commenced in 1994)

LSB371	Biochemistry 4	8	4
LSB451	Human Physiology	12	7
MAB252	Statistics	4	2
OPB312	Visual Science 3	12	5
PHB340	Optics 3	12	7

Year 2, Semester 2

LSB370	Disease Processes	4	2
LSB491	Microbiology 3	6	3
OPB401	Ocular & Regional Anatomy	10	4
OPB405	Clinical Optometry 4	4	2
OPB412	Visual Science 4	12	5
OPB415	Ocular Physiology	12	4

Year 3, Semester 1 (For students who commenced prior to 1994)

OPB504	Ophthalmic Optics 5	6	4
OPB505	Clinical Optometry 5	8	4
OPB508	Ocular Physiology	8	4
OPB509	Optometry 5	18	9
OPB527	Diseases of the Eye 5	8	3

Year 3, Semester 2

OPB605	Clinical Optometry 6	8	4
OPB608	Ocular Pharmacology	6	3
OPB609	Optometry 6	16	8
OPB617	Contact Lens Studies 6	6	2
OPB627	Diseases of the Eye 6	8	4
SSB911	General Psychology	4	3

Year 4, Semester 1

MAB258	Experimental Design	4	2
OPB705	Clinical Optometry 7	24	13
OPB709	Optometry 7	10	5
OPB717	Contact Lens Studies 7	6	2
OPB750/1	Project	5	2

Year 4, Semester 2

OPB750/2	Project	5	2
OPB803	Occupational/Public Health Optometry	6	2
OPB805	Clinical Optometry 8	32	17
OPB807	Practice Management	4	2

■ Bachelor of Applied Science (Podiatry) (PU45)**Location:** Kelvin Grove campus**Course Duration:** 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Alan Crawford

Professional Recognition

Graduates are eligible for State Registration throughout Australia. This qualification is also acceptable for registration in the United Kingdom, New Zealand and the EEC countries.

Graduates also become Members of the Australian Podiatry Association and are eligible to apply for membership of the Australian Sports Medicine Federation.

Special Course Requirement

Students are required to undertake 180 hours of clinical practice between semesters in the second and third years of the course.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
CHB142 Chemistry 1	12	6
ISB382 Microcomputer Applications	8	3
LSB151 Human Anatomy 1	8	3
MEB031 Material Technology	8	2
PHB150 Physics 1H	12	6
Year 1, Semester 2		
CHB289 Organic & Physical Chemistry	8	4
LSB261 Systematic Anatomy	8	3
LSB331 Advanced Anatomy	8	6
MAB152 Quantitative Methods	8	3
PHB252 Kinesiology & Biomechanics	8	2
PHB262 Physics 2L	8	4
Year 2, Semester 1		
LSB371 Biochemistry 4	8	4
LSB401 Microbiology	8	3
LSB451 Human Physiology	12	7
PUB302 Podiatric Medicine 1	8	4
PUB303 Clinical Science 1	12	6
Year 2, Semester 2		
LSB470 Disease Processes 4	8	4
PUB306 Pharmacology	8	3
PUB404 Clinical Science 2	12	9
PUB421 Podiatric Medicine 2	12	6
SSB890 Psychology	8	3
Year 3, Semester 1		
PHB313 Radiographic Image Interpretation	8	3
PUB304 Physical Medicine	8	3
PUB410 Medicine	8	3
PUB422 Podiatric Anaesthesiology	8	2
PUB503 Podiatric Medicine 3	8	3
PUB504 Clinical Science 3	8	12
Year 3, Semester 2		
PUB411 Orthopaedics	8	3
PUB502 Dermatology	8	3
PUB505 Podiatric Surgery	8	3
PUB602 Sports Medicine	8	3
PUB603 Clinical Science 4	8	12
PUB610 Project & Professional Management	8	3

■ Bachelor of Business (PU48)

With majors in: Health Administration and Health Information Management.

Location: Kelvin Grove campus

Course Duration: 3 years full-time (Health Information Management major), 6 years part-time (Health Administration major)

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Josie Di Donato

Professional Recognition

Students who complete the Health Administration major are eligible for membership of the Australian College of Health Service Executives.

Students who complete the Health Information Management Major are eligible for membership of the Health Information Management Association of Australia (HIMAA).

Course Requirements

Note: Students who commenced the Bachelor of Business (Health Administration) prior to 1993 should contact the Course Coordinator for details of their enrolment program in 1995.

HEALTH ADMINISTRATION MAJOR

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ISB892	Business Computing	12	4
PUB130	Australian Health Industry	12	3
Year 1, Semester 2			
PUB233	Information, Education & Communication for Health	12	3
PUB251	Introduction to Public Health	12	3
Year 2, Semester 1			
HRB130	Organisational Behaviour	12	3
PUB513	Epidemiology & Diseases	12	4
Year 2, Semester 2			
ALB110	Business Law	12	3
HRB131	Personnel Management & Industrial Relations	12	3
Year 3, Semester 1			
AYB105	Principles of Accounting	12	3
EPB150	Microeconomics	12	3
Year 3, Semester 2			
PUB220	Medical Terminology	12	3
PUB531	Health Care Economics	12	3
Year 4, Semester 1			
BSB102	Management & Organisation	12	3
PUB431	Economic Evaluation of Health Services	12	3
Year 4, Semester 2			
	Elective Unit	12	
	Elective Unit	12	
Year 5, Semester 1			
LWS001	Medicine & the Law	12	3
PUB529	Health Planning & Evaluation	12	3

Year 5, Semester 2

PUB580	Health Administration Finance	12	3
	Elective Unit	12	3

Year 6, Semester 1

PUB651	Casemix Management	12	3
PUB657	Human Resources in Health	12	3

Year 6, Semester 2

Select two of the following units:

PUB655	Health Policy and Planning	12	3
PUB659	Management of Health Services	12	3
	Elective Unit	12	

HEALTH INFORMATION MANAGEMENT MAJOR**Full-Time Course Structure****Year 1, Semester 1**

LSB142	Anatomy & Physiology	12	5
LWS001	Medicine & the Law	12	3
PUB130	Australian Health Industry	12	3
PUB299	Health Information Management 1	12	4

Year 1, Semester 2

ISB892	Business Computing	12	4
PUB220	Medical Terminology	12	3
PUB233	Information, Education & Communication for Health	12	3
PUB399	Health Information Management 2	12	4

Year 2, Semester 1

BSB102	Management & Organisation	12	3
LSB361	Fundamentals of Medicine	12	3
PUB356	Clinical Classification 1	12	4
PUB513	Epidemiology & Diseases	12	4

Year 2, Semester 2

HRB131	Personnel Management & Industrial Relations	12	3
PUB456	Clinical Classification 2	12	4
PUB618	Health Computer Systems	12	4

Select one of the following units:

EPB116	Economic Principles	12	3
EPB150	Microeconomics	12	3

Year 3, Semester 1

PUB499	Health Information Management 3	12	4
PUB529	Health Planning & Evaluation	12	3
PUB651	Casemix Management	12	3
PUB653	Professional Experience	12	6

Year 3, Semester 2

PUB580	Health Administration Finance	12	3
PUB619	Health Information Management 4	12	4

Select two of the following units:

PUB659	Management of Health Services	12	3
PUB531	Health Care Economics	12	3
	Elective Unit	12	

Elective Units

Elective units may be chosen from any degree course, subject to prerequisite requirements, credit points, availability of the unit and approval of the Head of School.

Suggested specialist electives include:

		Semester	Credit Points	Contact Hrs/Wk
PUB533	International Health Care Systems	1	12	3
PUB600	Health Management 1	1	12	3
PUB605	Health Management 2	1	12	3
PUB212	Occupational Health and Safety 1	1	12	4
PUB528	Health Administration Project	1 and 2	12	

OR

Units exclusive to one major (e.g. students in the health administration major may choose to do PUB299 which is a core unit in the HIM major).

(Seek the advice and ratification of the Course Coordinator before formally enrolling in electives).

■ Bachelor of Nursing (Postregistration) (NS48)

Location: Kelvin Grove campus

Course Duration: 1 years full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Gail Hart

Professional Recognition

This course is recognised by the Royal College of Nursing, Australia as satisfying the academic requirements for admission as a professional member.

Advanced Standing

Advanced standing of six months will be granted to graduates of the following courses conducted at QUT:

- ☐ Diploma of Applied Science – Nursing or equivalent
- ☐ Post-registration Diploma of Applied Science courses, since (and including) 1984 or equivalent.

Full-Time Course Structure

Semester 1

		Credit Points	Contact Hrs/Wk
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB601	Research in Nursing Practice	8	3
PUB109	Introduction to Environmental Health	8	3
	Elective Unit	8	3

Semester 2

HUB004	Philosophy & Nursing 2	8	3
LWS005	Law & Nursing	8	3
SSB906	Sociology for Health Professionals	8	3
	Elective Unit	8	

Select one of the following units:

NSB207	Nursing & the Individual	8	3
NSB406	Nursing & the Family	8	3
NSB407	Nursing & the Community	8	3

Select one of the following units:

NSB308	Nursing & Mental Disorder	8	3
PUB423	Food & Nutrition	8	3

Part-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
PUB109	Introduction to Environmental Health	8	3

Year 1, Semester 2

HUB004	Philosophy & Nursing 2	8	3
SSB906	Sociology for Health Professionals	8	3

Select one of the following units:

NSB308	Nursing & Mental Disorder	8	3
PUB423	Food & Nutrition	8	3

Year 2, Semester 1

LWS005	Law & Nursing	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	3

Year 2, Semester 2

NSB504	Professional Issues in Nursing 1	8	3
	Elective Unit	8	

Select one of the following units:

NSB207	Nursing & the Individual	8	3
NSB406	Nursing & the Family	8	3
NSB407	Nursing & the Community	8	3

Full-Time Course Structure**Advanced Standing Only (Diplomates)****Semester 1**

HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB601	Research in Nursing Practice	8	3
PUB109	Introduction to Environmental Health	8	3
	Elective Unit	8	

Part-Time Course Structure**Advanced Standing Only (Diplomates)****Semester 1**

HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
PUB109	Introduction to Environmental Health	8	3

Semester 2

NSB504	Professional Issues in Nursing 1	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	

Elective Units

Students may elect to enrol in any undergraduate degree level unit as an elective (other than the identified Nursing elective units). Students are required to contact the relevant faculty for permission to enrol.

Nursing Elective Units

Where the course structure indicates a Nursing elective unit, one of the following units may be taken:

		Credit Points	Contact Hrs/Wk
NSB349	Counselling & Crisis Management	8	3
NSB350	Health Education in Nursing	8	3
NSB450*	Readings in Nursing	8	3

Alternative units not chosen as core units may also be taken as Nursing elective units. For example, if NSB406 Nursing and the Family is selected as a core unit then NSB407 Nursing and the Community can be selected as an elective.

*NSB450 Readings in Nursing should be selected as an elective if students wish to proceed to an honours degree.

■ Bachelor of Nursing (Preregistration) (NS40)

Location: Kelvin Grove campus

Course Duration: 3 years full-time, 5 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Gail Hart

Professional Recognition

Graduates are eligible for registration within Australia, and have been successful in obtaining registration in Britain, New Zealand and North America.

This course is recognised by the Royal College of Nursing, Australia as satisfying the academic requirements for admission as a professional member.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LSB181	Anatomy	8	3
NSB114	Clinical Practice 1A	8	3
NSB115	Clinical Practice 1B	8	
NSB151	Foundations of Nursing Practice 1	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3
Year 1, Semester 2			
LSB251	Microbiology	8	3
LSB281	Physiology & Pharmacology	8	3
NSB152	Foundations of Nursing Practice 2	8	3
NSB214	Clinical Practice 2A	8	3
NSB215	Clinical Practice 2B	8	
SSB906	Sociology for Health Professionals	8	3

Year 2

Students entering the Year 2 program are allocated to either the Biophysical Health area or the Mental Health area (subject to quota restrictions). The area not covered in Year 2 must be completed in Year 3.

Year 2, Semester 1

BIOPHYSICAL HEALTH AREA

LSB191	Clinical Physiology & Pharmacology	8	3
LWS005	Law & Nursing	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB304	Nursing & Culture	8	3

NSB360	Clinical Practice 3A/BH	8	3
NSB361	Clinical Practice 3B/BH	8	3
OR			

MENTAL HEALTH AREA

HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB370	Clinical Practice 3A/MH	8	3
NSB371	Clinical Practice 3B/MH	8	
NSB402	Nursing & Mental Health 2	8	3
PUB423	Food & Nutrition	8	3

Year 2, Semester 2

BIOPHYSICAL HEALTH AREA

HUB003	Philosophy & Nursing 1	8	3
NSB401	Nursing & Biophysical Health 2	8	3
NSB406	Nursing & the Family	8	3
NSB460	Clinical Practice 4A/BH	8	3
NSB461	Clinical Practice 4B/BH	8	
PUB423	Food & Nutrition	8	3
OR			

MENTAL HEALTH AREA

LWS005	Law & Nursing	8	3
NSB302	Nursing & Mental Health 1	8	3
NSB308	Nursing & Mental Disorder	8	3
NSB407	Nursing & the Community	8	3
NSB470	Clinical Practice 4A/MH	8	3
NSB471	Clinical Practice 4B/MH	8	

Year 3

The area either Biophysical Health or Mental Health not covered in Year 2 must be completed in Year 3.

Year 3, Semester 1

BIOPHYSICAL HEALTH AREA

HUB004	Philosophy & Nursing 2	8	3
LSB191	Clinical Physiology & Pharmacology	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB560	Clinical Practice 5A/BH	8	3
NSB561	Clinical Practice 5B/BH	8	
OR			

MENTAL HEALTH AREA

NSB302	Nursing & Mental Health 1	8	3
NSB308	Nursing & Mental Disorder	8	3
NSB407	Nursing & the Community	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB570	Clinical Practice 5A/MH	8	3
NSB571	Clinical Practice 5B/MH	8	

Year 3, Semester 2

BIOPHYSICAL HEALTH AREA

NSB401	Nursing & Biophysical Health 2	8	3
NSB406	Nursing & the Family	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
NSB660	Clinical Practice 6A/BH	8	3
NSB661	Clinical Practice 6B/BH	8	3
OR			

MENTAL HEALTH AREA

HUB004	Philosophy & Nursing 2	8	3
NSB402	Nursing & Mental Health 2	8	3

NSB504	Professional Issues in Nursing 1	8	3
NSB601	Research in Nursing Practice	8	3
NSB670	Clinical Practice 6A/MH	8	3
NSB671	Clinical Practice 6B/MH	8	

Part-Time Course Structure

Year 1, Semester 1

LSB181	Anatomy	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3

Year 1, Semester 2

LSB251	Microbiology	8	3
LSB281	Physiology & Pharmacology	8	3
SSB906	Sociology for Health Professionals	8	3

Year 1, Semester 3

NSB114	Clinical Practice 1A	8	3
NSB115	Clinical Practice 1B	8	
NSB151	Foundations of Nursing Practice 1	8	3

Year 1, Semester 4

NSB152	Foundations of Nursing Practice 2	8	3
NSB214	Clinical Practice 2A	8	3
NSB215	Clinical Practice 2B	8	-

Year 2

Students entering the Year 2 program have been allocated to either the Biophysical Health area or the Mental Health area (subject to quota restrictions). The area not covered in Year 2 must be completed in Year 3.

BIOPHYSICAL HEALTH AREA

Year 2, Semester 1

LSB191	Clinical Physiology & Pharmacology	8	3
LWS005	Law & Nursing	8	3
NSB304	Nursing & Culture	8	3

Year 2, Semester 2

HUB003	Philosophy & Nursing 1	8	3
NSB406	Nursing & the Family	8	3
PUB423	Food & Nutrition	8	3

Year 2, Semester 3

NSB301	Nursing & Biophysical Health 1	8	3
NSB360	Clinical Practice 3A/BH	8	3
NSB361	Clinical Practice 3B/BH	8	

Year 2, Semester 4

NSB401	Nursing & Biophysical Health 2	8	3
NSB460	Clinical Practice 4A/BH	8	3
NSB461	Clinical Practice 4B/BH	8	

OR

MENTAL HEALTH AREA

Year 2, Semester 1

LWS005	Law & Nursing	8	3
NSB304	Nursing & Culture	8	3
HUB003	Philosophy & Nursing 1	8	3

Year 2, Semester 2

NSB308	Nursing & Mental Disorder	8	3
NSB407	Nursing & the Community	8	3
PUB423	Food & Nutrition	8	3

Year 2, Semester 3

NSB402	Nursing & Mental Health 2	8	3
NSB370	Clinical Practice 3A/MH	8	3
NSB371	Clinical Practice 3B/MH	8	

Year 2, Semester 4

NSB302	Nursing & Mental Health 1	8	3
NSB470	Clinical Practice 4A/MH	8	3
NSB471	Clinical Practice 4B/MH	8	

Year 3

Year 3 is undertaken in the full-time mode. The area either Biophysical or Mental Health not covered in Year 2 must be completed in Year 3.

FACULTY OF INFORMATION TECHNOLOGY

Courses

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FACULTY OF INFORMATION TECHNOLOGY

Information for all Information Technology students

Rules and regulations

Students undertaking courses in the Faculty of Information Technology should acquaint themselves with Faculty policy on assessment, deferred examinations, and plagiarism. In many cases, Faculty policy is more explicit than University policy. Students should make sure they obtain a copy of the Faculty's Student Information Booklet, which is distributed at the beginning of each semester.

Note that from first semester 1995 a minimum grade of 4 is normally required to fulfil the prerequisite requirement for all units in courses offered by the Faculty of Information Technology.

Faculty policy regarding use of University computer facilities

Access to computer accounts, E-mail, and bulletin board facilities via QUT equipment is provided solely to assist students in education and research. Use of such facilities by students for matters unrelated to their course of study or approved research represents misuse. Any misuse may result in fines, suspension of use of computer accounts, and/or strict disciplinary action. Students will be required to sign a code of conduct on the use of these facilities.

■ Master of Applied Science (Research) (IT84)

See entry under University-wide and Interfaculty Courses.

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor George Mohay

The units below have been devised to represent the EFTSU (Effective Full-Time Student Unit) and attendance type of graduate research students.

Students should enrol in the relevant Masters Research units in **each** semester of their masters enrolment. At the end of each semester, results in those units will be shown as T – Assessment Continues. A final grade (Satisfactory/Unsatisfactory) will be given once the thesis has been examined according to the degree rules.

Students may also be required to undertake some coursework early in their degree. These coursework units will be assessed in the normal manner at the end of semester.

Full-Time Course Structure

Credit Points

Full-time students will enrol in:

IFN100	Full-time Masters Research	48
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unless they are candidates who either:

- (i) have exceeded the normal course duration and an extension of time has been approved, in which case they will enrol in

IFN101	Full-time Masters Research (extension)	48
OR		

- (ii) are required to enrol in coursework units in addition to their research, in which case they may be required to enrol in one of the following units, so that their semester enrolment totals as close as possible 48 credit points:

IFN300	Masters Research	36
IFN301	Masters Research	24
IFN302	Masters Research	12
IFN303	Masters Research	8

Part-Time Course Structure

Part-time students will enrol in:

IFN200	Part-time Masters Research	24
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unless they are candidates who either:

- (i) have exceeded the normal course duration and an extension of time has been approved, in which case they will enrol in

IFN201	Part-time Masters Research (extension)	24
OR		

- (ii) are required to enrol in coursework units in addition to their research, in which case they may be required to enrol in one of the following units, so that their semester enrolment totals as close as possible 24 credit points:

IFN302	Masters Research	12
IFN303	Masters Research	8

■ Master of Information Technology (IT40)/ Graduate Diploma in Information Technology (IT35)

Location: Gardens Point campus

Course Duration: 1.5 years full-time, 3 years part-time¹

Total Credit Points: 144¹

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Mike Roggenkamp

Entry Requirements

Applicants are required to have completed either:

- (i) a bachelor's degree which contains a major component in information technology or a bachelor's degree in any discipline area followed by a graduate diploma in

¹ Students will be enrolled, initially, in the Graduate Diploma in Information Technology, IT35. On successful completion of the 96 credit points of this course, students can leave with the award of Graduate Diploma in Information Technology. Or, if students have achieved a GPA of at least 5 on a 7 point scale, they may remain in the Program to complete the final 48 credit points for the award of Master of Information Technology.

information technology; students entering under this category are considered to be information technology graduates;

or

- (ii) a bachelor's degree in a discipline other than information technology and, at degree level, an introductory programming unit in a block structured language like Pascal; students entering under this category are considered to be non-information technology graduates.

Selection may be determined on an individual basis.

Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Course Structure

The course structure will consist of three 48 credit point modules:

- Non-Information Technology graduates (see Category ii above) will complete the Introductory Module and two other modules, not including the Distributed Systems Module or the Project.
- Information Technology graduates (see Category i above) will complete three modules or two modules and a 48 credit point project. They will not be permitted to do the Introductory Module.

NON-INFORMATION TECHNOLOGY GRADUATES

Full-time Course Structure (IT35)

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ITN210	Foundations of Information Modelling	12	3
ITN410	Software Principles	12	3
ITN510	Data Networks	12	3
Select one unit from the following:			
ITN211	Systems Analysis and Design	12	3
ITN411	Systems Architecture & Operating Systems	12	3
MAB177	Mathematics for Data Communications	12	3

Year 1, Semester 2

Select one of the following modules:

Computing Science Module 1

ITN420	Comparative Programming Languages	12	3
ITN421	Software Specification	12	3
	Elective Unit – Selected from List A	12	3
	Elective Unit – Selected from List A	12	3

Data Communications Module 1

ITN520	Internetworking	12	3
ITN521	Network Applications	12	3
	Elective Unit – Selected from List B	12	3
	Elective Unit – Selected from List B	12	3

Information Systems Module 1

ITN220	Major Issues in Information Systems	12	3
ITN221	Object-Oriented Analysis and Design	12	3
	Elective Unit – Selected from List D	12	3
	Elective Unit – Selected from List D	12	3

Full-Time Course Structure (IT40)

Year 1, Semester 1

Continue studies in module area undertaken in IT35:

Computing Science Module 2

ITN430	Advanced Operating Systems	12	3
ITN431	Distributed Systems	12	3
	Elective Unit – Selected from List A	12	3
	Elective Unit – Selected from List A	12	3

Data Communications Module 2

ITN530	Corporate Telecommunications	12	3
ITN531	Network Security	12	3
	Elective Unit – Selected from List C	12	3
	Elective Unit – Selected from List C	12	3

Information Systems Module 2

ITN230	Current Advances in Database Technology	12	3
ITN231	Knowledge-based Systems	12	3
	Elective Unit – Selected from List E	12	3
	Elective Unit – Selected from List E	12	3

NON-INFORMATION TECHNOLOGY GRADUATES

Part-time Course Structure (IT35)

Year 1, Semester 1

ITN210	Foundations of Information Modelling	12	3
ITN410	Software Principles	12	3

Year 1, Semester 2

ITN510	Data Networks	12	3
Select one from the following:			
ITN211	Systems Analysis and Design	12	3
ITN411	Systems Architecture & Operating Systems	12	3
MAB177	Mathematics for Data Communications	12	3

Year 2, Semester 1

Select one of the following modules:

Computing Science Module 1

ITN420	Comparative Programming Languages	12	3
ITN421	Software Specification	12	3

Data Communications Module 1

ITN520	Internetworking	12	3
ITN521	Network Applications	12	3

Information Systems Module 1

ITN220	Major Issues in Information Systems	12	3
ITN221	Object-Oriented Analysis and Design	12	3

Year 2, Semester 2

Continue with module selected:

Computing Science Module 1

Elective Unit – Selected from List A	12	3
Elective Unit – Selected from List A	12	3

Data Communications Module 1

Elective Unit – Selected from List B	12	3
Elective Unit – Selected from List B	12	3

Information Systems Module 1

Elective Unit – Selected from List D	12	3
Elective Unit – Selected from List D	12	3

Part-Time Course Structure (IT40)

Year 1, Semester 1

Continue studies in module area undertaken in IT35:

Computing Science Module 2

ITN430	Advanced Operating Systems	12	3
ITN431	Distributed Systems	12	3

Data Communications Module 2

Elective Unit – Selected from List C	12	3
Elective Unit – Selected from List C	12	3

Information Systems Module 2

ITN100	Research Methodologies	12	3
ITN230	Current Advances in Database Technology	12	3

Year 1, Semester 2

Continue with chosen module:

Computer Science Module 2

Elective Unit – Selected from List A	12	3
Elective Unit – Selected from List A	12	3

Data Communications Module 2

ITN530	Corporate Telecommunications	12	3
ITN531	Network Security	12	3

Information Systems Module 2

ITN231	Knowledge-based Systems	12	3
	Elective Unit – Selected from List E	12	3

INFORMATION TECHNOLOGY GRADUATES

Consult the Course Coordinator for actual program from:

Computing Science Modules 1 and 2

Data Communications Modules 1 and 2

Information Systems Modules 1 and 2²

Distributed Systems Module – see below for module program

Project (48 credit points)

Distributed Systems Module

ITN250	Distributed Database Systems	12	3
ITN431	Distributed Systems	12	3
ITN531	Network Security	12	3

Select one unit from the following:

ITN242	Distributed Transaction Management Systems	12	3
ITN444	Parallel Processing	12	3
ITN553	OS Security and Management	12	3

Project

For Full-Time Information Technology Graduates

ITN140	Project	48
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For Part-time Information Technology Graduates

ITN150/1	Project (Part-time) ³	24
ITN150/2	Project (Part-time) ³	24

² ITN100 Research Methodologies must replace an Elective Unit in Module 2 for students intending to undertake the Project.

³ Unit extends over two semesters.

Electives

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the Course Coordinator. Full-time students should note that many electives may be offered in the evenings only.

List A: Computing Science Modules 1 and 2 – Elective Units

First Semester

ITN442	Compiler Construction	12	3
ITN444	Parallel Processing	12	3
ITN445	Pattern Recognition	12	3
ITN446	Project	12	3
ITN447	Special Studies	12	3

Second Semester

ITN440	Advanced Graphics	12	3
ITN441	Artificial Intelligence	12	3
ITN443	Neurocomputing	12	3
ITN446	Project	12	3
ITN447	Special Studies	12	3

Advanced undergraduate units in Software Engineering can be chosen, subject to the approval of the Course Coordinator.

Note: Students expecting to graduate with major studies in Software Engineering must include at least two Software Engineering units as electives in Computing Science Modules 1 and 2.

List B: Data Communications Module 1 – Elective Units

Recommended electives are:

ITB542	Network Programming	12	3
ITB548	Introduction to Cryptology	12	3

With the approval of the Course Coordinator, either elective unit may be replaced with a unit from the following:

ITB533	Comparative Network Systems	12	3
ITB543	Data Security	12	3
ITB549	Error Control and Data Compression	12	3

List C: Data Communications Module 2 – Elective Units

Recommended electives are:

ITB532	Laboratory 4 (Network Management)	12	3
ITN540	Advanced Network Technologies	12	3

With the approval of the Course Coordinator, either elective unit may be replaced with a unit from the following:

ITB548	Introduction to Cryptology	12	3
ITN553	OS Security and Management	12	3
ITN554	Special Topic	12	3
ITN556	Advanced Topics in Cryptology	12	3

List D: Information Systems Module 1 – Elective Units

Recommended electives are:

ITB220	Database Design	12	3
ITB232	Database Management	12	3
ITB233	File Structures	12	3
ITN241	Advanced Topics in Human-Computer Interaction	12	3
ITN243	Access Methods for Information Systems	12	3
ITN244	Special Topic	12	3

List E: Information Systems Module 2 – Elective Units

ITN242	Distributed Transaction Management Systems	12	3
ITN244	Special Topic	12	3
ITN245	Special Topic	12	3
ITN250	Distributed Database Systems	12	3

■ Graduate Diploma in Library and Information Studies (IS25)**Location:** Gardens Point campus**Course Duration:** 1 year full-time, 2 years part-time**Total Credit Points:** 96**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Dr Jeanne Owen**Entry Requirements**

To be eligible for admission to the Graduate Diploma in Library and Information Studies, applicants are required to have a degree or a three-year diploma from a recognised tertiary institution in a discipline other than library science and to have successfully completed a degree level introductory computing unit (the equivalent of at least three hours per week for one semester).

Professional Recognition

Graduates are eligible to become 'Associates' (that is, professional members) of the Australian Library and Information Association.

Full-Time Course Structure

Credit Points	Contact Hrs/Wk
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Semester 1

ITP310	Systems Analysis	12	3
ITP311	Collection Building & Acquisitions	12	3
ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources & Services	12	3

Semester 2

ITP314	Online Information Services	12	3
ITP315	Library Programs Management	12	3
ITP316	Field Experience	4	
	Elective Unit	12	3
	Elective Unit	8	2

Part-Time Course Structure**Year 1, Semester 1**

ITP310	Systems Analysis	12	3
ITP311	Collection Building & Acquisitions	12	3

Year 1, Semester 2

ITP314	Online Information Services	12	3
ITP315	Library Programs Management	12	3

Year 2, Semester 1

ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources & Services	12	3

Year 2, Semester 2

ITP316	Field Experience	4	
	Elective Unit	12	3
	Elective Unit	8	2

Semester Elective Units

The offering of elective units depends on sufficient minimum enrolments in the unit and the availability of staff. Full-time students should note that electives may be offered in the evenings only. Elective units may be chosen from the list below. Alternatively, students may choose from any of the units offered in the Graduate Diploma in Education (Teacher-Librarianship) subject to the approval of that Course Coordinator; or units from the Information Management major in the Bachelor of Information Technology (IT20) on the advice of the Course Coordinator; or any other appropriate unit may be taken with the approval of the Course Coordinator.

ITP317	Library Services to Young People	12	3
ITP318	Advanced Organisation of Knowledge	12	3
ITP319	Government Documents	12	3
ITP320	Special Topic – Library Science	12	3
ITP321	Special Topic – Library Science	8	2
ITP322	Individual Study	8	2
ITP323	Introduction to Records Management	8	2
ITP324	Library Programs & Services	8	2
ITP325	Preservation Management of Materials	12	3
ITP326	Individual Study	12	3

■ Bachelor of Information Technology (Honours) (IT30)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Alison Anderson

Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Information Technology or equivalent and normally should have attained a grade point average (GPA) of at least 5.0 on a 7 point scale (or its equivalent), having completed the relevant pre-honours extended major (or equivalent).

Application for admission should be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors, including work experience or involvement in research, may be admitted at the discretion of the Dean.

Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Full-time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
ITN100	Research Methodologies	12	3
ITN110	Project (Honours)	12	3
	Elective	12	3
	Elective	12	3

Semester 2

ITN120	Dissertation	24	
	Elective	12	3
	Elective	12	3

Part-time Course Structure**Semester One**

ITN100	Research Methodologies	12	3
	Elective	12	3

Semester Two

ITN110	Project (Honours)	12	
	Elective	12	3

Semester Three

ITN130/1	Dissertation (Part-time) ³	12	
	Elective	12	3

Semester Four

ITN130/2	Dissertation (Part-time) ³	12	
	Elective	12	3

Elective Units

Elective units may be chosen from the following specified units in the areas of Computing Science, Data Communications, Information Management, Information Systems or Software Engineering, each of which is subject to undergraduate prerequisite requirements. With the agreement of the Course Coordinator students may also choose as electives Masters level units offered by any School of the Faculty, or by other Faculties. In any variation from the standard course outlined here, students must justify elective choices in terms of their overall plan for the Honours course. Students should note also that the offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. Full-time students should note that many electives may be offered in the evenings only.

Semester 1 Electives**Computing Science/Software Engineering**

ITN421	Software Specification	12	3
ITN430	Advanced Operating Systems	12	3
ITN431	Distributed Systems	12	3
ITN441	Artificial Intelligence	12	3
ITN442	Compiler Construction	12	3
ITN444	Parallel Processing	12	3
ITN445	Pattern Recognition	12	3

Data Communications

ITN540	Advanced Network Technologies	12	3
ITN553	OS Security and Management	12	3
ITN554	Special Topic	12	3
ITN556	Advanced Topics in Cryptology	12	3

Information Systems

ITN221	Object-Oriented Analysis & Design	12	3
ITN241	Advanced Topics in Human-Computer Interaction	12	3
ITN243	Access Methods for Information Systems	12	3
ITN244	Special Topic	12	3

Information Management

ITN340	Information Agencies	12	3
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³ Unit extends over two semesters.

Semester 2 Electives

Computing Science/Software Engineering

ITN420	Comparative Programming Languages	12	3
ITN421	Software Specification	12	3
ITN440	Advanced Graphics	12	3
ITN441	Artificial Intelligence	12	3
ITN443	Neural Computing	12	3
ITN444	Parallel Processing	12	3

Data Communications

ITN530	Corporate Telecommunications	12	3
ITN531	Network Security	12	3
ITN555	Special Topic	12	3

Information Systems

ITN230	Current Advances in Database Technology	12	3
ITN231	Knowledge-based Systems	12	3
ITN245	Special Topic	12	3
ITN250	Distributed Database Systems	12	3

Information Management

ITN341	Information Policy and Planning	12	3
ITN342	Information Science	12	3

■ Bachelor of Information Technology (IT20)

Location: Gardens Point Campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Alan Underwood

Course Structure

The course structure is divided into three blocks of equal weight (96 credit points each).

Block 1

All students undertake the Foundation Year, the first full-time year or first two years part-time, of the course. This block is worth 96 credit points.

Block 2

At the end of the Foundation Year, students choose a Primary Major in either:

- A: Computing Science
- B: Data Communications
- C: Information Management
- D: Information Systems
- E: Software Engineering

The Primary Major is worth 96 credit points and extends over the second and third years of the course for full-time students, and the third to sixth years for part-time students.

Block 3

Students choose the makeup of the third block of the course, which also extends over the later years of the course and is worth 96 credit points. Choices are:

(i) Extended Major and a Minor

An extended major consists of 48 credit points of further study in the area of the primary major.

A minor consists of a cohesive set of units of approved study equal to 48 credit points. Examples of minors are given at the end of this section on IT20, Block 3, Section 4.

(ii) Pre-Honours Extended Major and a Minor

The pre-honours extended major is available for selected students who have performed well in the Foundation Year and the first half of the primary major. The pre-honours extended major consists of 48 credit points of advanced study in the area of the primary major and prepares students for the Honours course and higher-level studies.

A minor (see above) is taken with this extended major to make up the 96 credit points of Block 3.

(iii) Secondary Major

A secondary major consists of 96 credit points of study in an area of relevance and interest. Examples of secondary majors are given at the end of this section on IT20.

(iv) Two Minors

Students can undertake two minors, worth 48 credit points each, to complete Block 3; see above for explanation of minors.

Course Requirements

Year 1	BLOCK 1 (96 credit points)	Foundation Year
Years 2 & 3	BLOCK 2 (96 credit points)	Primary Major
	BLOCK 3 (96 credit points)	ONE OF THE FOLLOWING: <input type="checkbox"/> Extended Major and a Minor <input type="checkbox"/> Pre-Honours Extended Major and a Minor <input type="checkbox"/> Secondary Major <input type="checkbox"/> Two Minors

Cooperative Education Program

An optional one-year paid work experience is available to eligible students at the end of the second year of full-time study. Students participating in this program enrol in ITB904 – Industrial Training Experience, a 24 credit point unit.

Note: A minimum grade of 4 is normally required to fulfil the prerequisite requirements for all units in the course.

□ Block 1: Foundation Year

First Year Coordinator: Ms Ruth Christie

Full-Time Course Structure

Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB310	Information Management 1	12	3
ITB410	Software Development 1	12	3

Year 1, Semester 2

BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

Part-Time Course Structure

Year 1, Semester 1

ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3

Year 1, Semester 2

BSB103	Business Communications & Applications	12	3
ITB410	Software Development 1	12	3

Year 2, Semester 1

ITB310	Information Management 1	12	3
ITB412	Technology of Information Systems	12	3

Year 2, Semester 2

ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3

□ Block 2: Primary Major

Primary majors are available in the following areas:

- A: Computing Science
- B: Data Communications
- C: Information Management
- D: Information Systems
- E: Software Engineering

A: Computing Science Primary Major

Major Coordinator:

Mr Trevor Chorvat, First Semester 1995
Dr Gerard Finn, Second Semester 1995

Full-Time Course Structure

Year 2, Semester 1

ITB420	Computer Architecture	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3
ITB520	Data Communications	12	3

Year 2, Semester 2

ITB424	Software Engineering Principles	12	3
ITB431	Programming Language Paradigms	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 3, Semester 1

ITB423	Laboratory 4 (Software Development)	12	3
ITB430	Concurrent Systems	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 3, Semester 2

	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Part-Time Course Structure

Year 3, Semester 1

ITB520	Data Communications	12	3
	Block 3 Unit	12	3

Year 3, Semester 2

ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3

Year 4, Semester 1

ITB424	Software Engineering Principles	12	3
	Block 3 Unit	12	3

Year 4, Semester 2

ITB423	Laboratory 4 (Software Development)	12	3
	Block 3 Unit	12	3

Year 5, Semester 1

ITB431	Programming Language Paradigms	12	3
	Block 3 Unit	12	3

Year 5, Semester 2

ITB420	Computer Architecture	12	3
	Block 3 Unit	12	3

Year 6, Semester 1

	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 6, Semester 2

ITB430	Concurrent Systems	12	3
	Block 3 Unit	12	3

B: Data Communications Primary Major**Major Coordinator:** Mr Neville Richter**Full-Time Course Structure**

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
ITB520	Data Communications	12	3
MAB177	Mathematics for Data Communications	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
Year 2, Semester 2			
ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
Year 3, Semester 1			
ITB530	Transport Protocols	12	3
ITB531	Applications Services	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
Year 3, Semester 2			
ITB532	Laboratory 4 (Network Management)	12	3
	Data Communications Elective Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Part-Time Course Structure**Year 3, Semester 1**

ITB520	Data Communications	12	3
MAB177	Mathematics for Data Communications	12	3

Year 3, Semester 2

ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3

Year 4, Semester 1

Block 3 Unit	12	3
Block 3 Unit	12	3

Year 4, Semester 2

Block 3 Unit	12	3
Block 3 Unit	12	3

Year 5, Semester 1

ITB530	Transport Protocols	12	3
ITB531	Applications Services	12	3

Year 5, Semester 2

Block 3 Unit	12	3
Block 3 Unit	12	3

Year 6, Semester 1

Block 3 Unit	12	3
Block 3 Unit	12	3

Year 6, Semester 2

ITB532	Laboratory 4 (Network Management)	12	3
	Data Communications Elective Unit	12	3

Elective Unit

Subject to the approval of the major coordinator, students may choose the elective from Data Communications extended majors or minors or, depending on the course program choice, from other Schools within the Faculty.

C: Information Management Primary Major

Major Coordinator: Mr Michael Middleton

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
ITB220	Database Design	12	3
ITB320	Laboratory 3 (Database Applications)	12	3
ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3
Year 2, Semester 2			
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB520	Data Communications	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
Year 3, Semester 1			
ITB330	Information Issues & Values	12	3
ITB331	Information Management 2	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
Year 3, Semester 2			
	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Part-Time Course Structure**Year 3, Semester 1**

ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3

Year 3, Semester 2		
Block 3 Unit	12	3
Block 3 Unit	12	3
Year 4, Semester 1		
ITB220 Database Design	12	3
ITB320 Laboratory 3 (Database Applications)	12	3
Year 4, Semester 2		
ITB323 Laboratory 4 (Information Support Methods)	12	3
ITB520 Data Communications	12	3
Year 5, Semester 1		
ITB331 Information Management 2	12	3
Block 3 Unit	12	3
Year 5, Semester 2		
Block 3 Unit	12	3
Block 3 Unit	12	3
Year 6, Semester 1		
ITB330 Information Issues & Values	12	3
Block 3 Unit	12	3
Year 6, Semester 2		
Block 3 Unit	12	3
Block 3 Unit	12	3

D: Information Systems Primary Major

Major Coordinator: Associate Professor Alan Underwood

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
ITB220 Database Design		12	3
ITB221 Laboratory 3 (Commercial Programming)		12	3
ITB222 Systems Analysis & Design 1		12	3
ITB520 Data Communications		12	3
Year 2, Semester 2			
ITB223 Laboratory 4 (4GL Programming)		12	3
ITB224 Systems Analysis & Design 2		12	3
ITB233 File Structures		12	3
Block 3 Unit		12	3
Year 3, Semester 1			
Block 3 Unit		12	3
Block 3 Unit		12	3
Block 3 Unit		12	3
Select one of the following units:			
ITB230 Project		12	3
ITB231 Applications Development		12	3
Year 3, Semester 2			
Block 3 Unit		12	3
Block 3 Unit		12	3
Block 3 Unit		12	3
Block 3 Unit		12	3

Part-Time Course Structure

Year 3, Semester 1		
ITB222 Systems Analysis & Design 1	12	3
ITB520 Data Communications	12	3

Year 3, Semester 2

ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3

Year 4, Semester 1

ITB220	Database Design	12	3
	Block 3 Unit	12	3

Year 4, Semester 2

ITB223	Laboratory 4 (4GL Programming)	12	3
	Block 3 Unit	12	3

Year 5, Semester 1

ITB233	File Structures	12	3
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Select one of the following units:

ITB230	Project	12	3
ITB231	Applications Development	12	3

Year 5, Semester 2

	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 6, Semester 1

	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 6, Semester 2

	Block 3 Unit	12	3
	Block 3 Unit	12	3

E: Software Engineering Primary Major

Major Coordinator: Mr Richard Thomas

Full-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

Year 2, Semester 1

ITB222	Systems Analysis & Design 1	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3
	Block 3 Unit	12	3

Year 2, Semester 2

ITB424	Software Engineering Principles	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Year 3, Semester 1

ITB423	Laboratory 4 (Software Development)	12	3
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
	Block 3 Unit	12	3

Year 3, Semester 2

ITB455	Integrated Software Engineering Environment	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3
	Block 3 Unit	12	3

Part-Time Course Structure**Year 3, Semester 1**

ITB222	Systems Analysis & Design 1	12	3
ITB421	Data Structures & Algorithms	12	3

Year 3, Semester 2

ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3
	Block 3 Unit	12	3

Year 4, Semester 1

ITB424	Software Engineering Principles	12	3
	Block 3 Unit	12	3

Year 4, Semester 2

ITB423	Laboratory 4 (Software Development)	12	3
	Block 3 Unit	12	3

Year 5, Semester 1

ITB448	Object Technology	12	3
	Block 3 Unit	12	3

Year 5, Semester 2

ITB455	Integrated Software Engineering Environment	12	3
	Block 3 Unit	12	3

Year 6, Semester 1

ITB454	Software Quality Assurance	12	3
	Block 3 Unit	12	3

Year 6, Semester 2

	Block 3 Unit	12	3
	Block 3 Unit	12	3

□ Block 3: Options**Block 3 options**

Either:

- 1 Extended Major (48 credit points)
plus a Minor (48 credit points)

OR

- 2 Pre-Honours Extended Major (48 credit points)
for selected primary major students only plus
a Minor (48 credit points)

OR

- 3 Secondary Major (96 credit points)

OR

- 4 Two Minors (48 credit points each)

Extended Major and Pre-Honours Extended Majors are detailed below by Primary Major heading. Examples of Secondary Majors and Minors follow.

Extended and Pre-Honours Extended Majors**A: COMPUTING SCIENCE EXTENDED MAJOR**

(for Computing Science primary major students only)

ITB440	Language & Language Processing	12	3
ITB446	Project ⁴	12	
	Computing Science Elective Unit ⁴	12	3
	Computing Science Elective Unit ⁴	12	3

⁴ ITB446 Project and one Elective Unit may, subject to the approval of the major coordinator, be replaced with a 24 credit point project which may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project) subject to approval from the major coordinator.

Computing Science Electives

First Semester Electives

ITB441	Graphics	12	3
ITB442	Foundations of Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB447	Project	12	
ITB448	Object Technology	12	3
ITB451	Project ⁵	24	
ITB454	Software Quality Assurance	12	3
ITB457	Functional Programming	12	3
ITB461	Foundations of Neurocomputing	12	3
ITB463	Pattern Recognition	12	3

Second Semester Electives

ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3
ITB451	Project ⁵	24	
ITB453	Project ⁵	24	
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3
MAB172	Statistical Methods	12	3

PRE-HONOURS EXTENDED MAJOR

(for selected Computing Science primary major students only)

ITB440	Languages & Language Processing	12	3
ITB450	Advanced Computer Architecture	12	3
ITB452	Project Work	24	

B: DATA COMMUNICATIONS EXTENDED MAJOR

(for Data Communications primary major students only)

Students may select one of the following three extended majors:

1a: Data Communications Extended Major (Network Systems)

ITB442	Foundations of Artificial Intelligence	12	3
ITB533	Comparative Network Systems	12	3
ITB542	Network Programming	12	3
ITB544	Project	12	

1b: Data Communications Extended Major (Telecommunications)

ITB534	Telecommunications Modelling	12	3
ITB541	Transmission Techniques	12	3
ITB544	Project	12	
MAB178	Mathematics for Telecommunications	12	3

1c: Data Communications Extended Major (Information Security)

ITB543	Data Security	12	3
ITB544	Project	12	
ITB548	Introduction to Cryptology	12	3
ITB549	Error Control & Data Compression	12	3

PRE-HONOURS EXTENDED MAJOR

(for selected Data Communications primary major students only)

The Data Communications Pre-Honours Extended Major consists of one of the above Data Communications extended majors.

⁵ A 24 credit point project may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project), subject to the approval of the major coordinator.

C: INFORMATION MANAGEMENT EXTENDED MAJOR

(for Information Management primary major students only)

ITB340	Project	12	
ITB341	Information Management 3	12	3
MAB172	Statistical Methods	12	3
SSB937	Applied Cognitive Psychology	12	3

PRE-HONOURS EXTENDED MAJOR

(for selected Information Management primary major students only)

ITB350	Project – H	12	
ITB351	Information Management 3H	12	3
ITB352	Laboratory 4H (Information Support Method & Evaluation)	12	3
MAB272	Research Methods	12	3

D: INFORMATION SYSTEMS EXTENDED MAJOR

(for Information Systems primary major students only)

Students may select one of the following two extended majors:

INFORMATION SYSTEMS EXTENDED MAJOR 1

ITB232	Database Management	12	3
ITB240	Project	12	
ITB241	Information Systems Management	12	3
	Information Systems Elective Unit	12	3

Information Systems Electives**First Semester Electives**

ITB231	Applications Development	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB242	Decision Support Systems	12	3
ITB244	Special Topic 1	12	3
ITB247	Project	12	

Second Semester Electives

ITB235	Multimedia Systems Technologies	12	3
ITB243	Knowledge-Based Systems	12	3
ITB245	Special Topic 2	12	3
ITB246	Unix and C	12	3
ITB249	Theoretical Foundations of Database Systems	12	3
MAB172	Statistical Methods	12	3

INFORMATION SYSTEMS EXTENDED MAJOR 2

ITB232	Database Management	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB243	Knowledge-based Systems	12	3
ITB249	Theoretical Foundations of Database Systems	12	3

PRE-HONOURS EXTENDED MAJOR

(for selected Information Systems primary major students only)

ITB240	Project	12	
ITB241	Information Systems Management	12	3
ITB249	Theoretical Foundations of Database Systems	12	3
MAB272	Research Methods	12	3

E: SOFTWARE ENGINEERING EXTENDED MAJOR

(for Software Engineering primary major students only)

ITB446	Project ⁶	12	
ITB456	Intelligent Graphic User Interfaces	12	3
	Software Engineering Elective Unit	12	3
	Software Engineering Elective Unit	12	3

⁶ Project and one elective may be replaced with ITB451, a 24 credit point project taken over 2 semesters or with ITB453, a 24 credit point project taken in one semester.

Software Engineering Electives

First Semester Electives

ITB220	Database Design	12	3
ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
ITB441	Graphics	12	3
ITB451	Project ⁶	24	
ITB520	Data Communications	12	3

Second Semester Electives

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
ITB440	Language & Language Processing	12	3
ITB450	Advanced Computer Architecture	12	3
ITB451	Project ⁶	24	
ITB453	Project ⁶	24	

PRE-HONOURS EXTENDED MAJOR

(for selected Software Engineering primary major students only)

ITB452	Project	24	
ITB456	Intelligent Graphic User Interfaces	12	3
	Software Engineering Elective Unit	12	3
	Software Engineering Elective Unit	12	3

For choice of elective units – see Software Engineering Extended Major above.

Secondary Majors (96 Credit Points)

POSSIBLE SECONDARY MAJORS: It is the responsibility of the student to check prerequisite requirements and availability of secondary majors prior to enrolment. The choice of a secondary major is subject to the approval of the relevant primary major coordinator and/or the IT20 Course Coordinator.

FACULTY OF ARTS

Secondary majors are available in Humanities, Psychology and in Sociology/Social Policy. See Faculty Noticeboards for more details.

FACULTY OF BUSINESS

BUSINESS PRINCIPLES SECONDARY MAJOR

(for Computing Science, Data Communications, Information Systems, Software Engineering primary major students)

ALB110	Business Law	12	3
AYB110	Accounting	12	4
BSB102	Management and Organisation	12	3
COB102	Consulting for Organisational Change	12	3
EPB116	Economic Principles 1	12	3
FNB123	Managerial Accounting 1	12	4
HRB131	Personnel Management & Industrial Relations	12	3
MKB140	Principles of Marketing	12	3

⁶ Project and one elective may be replaced with ITB451, a 24 credit point project taken over 2 semesters or with ITB453, a 24 credit point project taken in one semester.

BUSINESS PRINCIPLES SECONDARY MAJOR
(for Information Management primary major students)

ALB110	Business Law	12	3
AYB110	Accounting	12	4
BSB102	Management and Organisation	12	3
COB102	Consulting for Organisational Change	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MAB172	Statistical Methods	12	3
MKB140	Principles of Marketing	12	3
SSB937	Applied Cognitive Psychology	12	3

FACULTY OF EDUCATION

CPB342	Education in Context	12	3
CUB365	Introduction to Professional Practice in Education	12	3
LAB340	Language, Technology and Education	12	3
LEB335	Human Development and Education	12	3
LEB336	Psychology of Learning and Teaching	12	3
MDB329	Computing Curriculum Studies 1	12	3
Group A unit (see Faculty of Education entry)		12	3
Group B unit (see Faculty of Education entry)		12	3

FACULTY OF INFORMATION TECHNOLOGY

COMPUTING SCIENCE SECONDARY MAJOR
(for Software Engineering primary major students)

ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
ITB520	Data Communications	12	3

Select one of the following options:

Option 1

Electives to the value of 48 credit points

Option 2

Relevant minor (48 credit points)

DATA COMMUNICATIONS SECONDARY MAJOR
(for Information Management primary major students)

BSB102	Management and Organisation	12	3
ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3
ITB530	Transport Protocols	12	3
ITB531	Applications Services	12	3
ITB532	Laboratory 4 (Network Management)	12	3
MAB172	Statistical Methods	12	3
MAB177	Mathematics for Data Communications	12	3

INFORMATION MANAGEMENT SECONDARY MAJOR

(for Computing Science, Data Communications, Information Systems and Software Engineering primary major students)

BSB102	Management and Organisation	12	3
ITB322	Information Resources	12	3
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB330	Information Issues and Values	12	3
ITB331	Information Management 2	12	3
SSB937	Applied Cognitive Psychology	12	3

Select two of the following units:

ITB241	Information Systems Management	12	3
ITB242	Decision Support Systems	12	3
ITB320	Laboratory 3 (Database Applications)	12	3
ITB340	Project	12	
ITB341	Information Management 3	12	3
MAB172	Statistical Methods	12	3

INFORMATION SYSTEMS SECONDARY MAJOR

(for Computing Science, Data Communications, Software Engineering primary major students)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB223	Laboratory 4 (4GL Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
ITB241	Information Systems Management	12	3
	Information Systems Elective Unit	12	3
	Information Systems Elective Unit	12	3
	Information Systems Elective Unit	12	3

INFORMATION SYSTEMS SECONDARY MAJOR

(for Information Management primary major students)

BSB102	Management and Organisation	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
ITB232	Database Management	12	3
ITB240	Project	12	
ITB241	Information Systems Management	12	3
MAB172	Statistical Method	12	3
SSB937	Applied Cognitive Psychology	12	3

LIBRARY AND INFORMATION STUDIES SECONDARY MAJOR

(for Information Management primary major students, wishing to work in the Library field)

BSB102	Management and Organisation	12	3
ITB340	Project	12	
ITP311	Collection Building and Acquisitions	12	3
ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources and Services	12	3
ITP315	Library Programs Management	12	3
MAB172	Statistical Method	12	3
SSB937	Applied Cognitive Psychology	12	3

SOFTWARE ENGINEERING SECONDARY MAJOR

(for Computing Science primary major students)

ITB222	Systems Analysis & Design 1	12	3
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3

Select one of the following options:

Option 1

Electives to the value of 48 credit points

Option 2

Relevant Minor (48 credit points)

SOFTWARE ENGINEERING SECONDARY MAJOR

(for Data Communications and Information Management primary major students)

ITB222	Systems Analysis & Design 1	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix Environment)	12	3
ITB423	Laboratory 4 (Software Development)	12	3
ITB424	Software Engineering Principles	12	3
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3

SOFTWARE ENGINEERING SECONDARY MAJOR

(for Information Systems primary major students)

ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix Environment)	12	3
ITB423	Laboratory 4 (Software Development)	12	3

ITB424	Software Engineering Principles	12	3
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

FACULTY OF SCIENCE

Secondary majors are available in Biochemistry, Biology, Chemistry, Geology, Mathematics, Microbiology, Molecular Biology and Physics. Students need to check prerequisite requirements with relevant Course Coordinator. The Mathematics Secondary Major is detailed below.

MATHEMATICS SECONDARY MAJOR

ITB548	Introduction to Cryptology	12	3
MAB172	Statistical Methods	12	3
MAB212	Mathematics 1	12	4
MAB232	Discrete Mathematics	12	4
MAB620	Finite Mathematics	12	4
MAB637	Operations Research 1A	12	4

Select two of the following units:

MAB272	Research Methods	12	3
MAB618	Computational Mathematics 2	12	4
MAB630	Linear Algebra & its Applications	12	4
MAB638	Operations Research 1B	12	4

Two Minors (48 Credit Points each)

Minors are available from other Faculties as well as from the Faculty of Information Technology. It is the responsibility of the student to check prerequisite requirements and the availability and suitability of minors prior to enrolment. The choice of minors is subject to the approval of the IT20 Course Coordinator.

FACULTY OF ARTS

Minors are available in Applied Psychology, Humanities, Music, and Visual Arts; see Faculty of Information Technology noticeboards.

FACULTY OF BUSINESS

Minors are available in:

Accounting, Advanced Economics, Advertising, Business Law and Taxation, Communication Technology, Creative Communication, Economic History, Economic Policy, Economics and Public Policy, Film & TV Production, Finance, Financial Maths, Government A, Government B, Human Resources Development A, Human Resources Development B, Human Resource Management, Industrial Relations A, Industrial Relations B, Industrial Relations C, International Business, International Economy, International Marketing, Journalism Broadcast, Journalism Print, Management A, Management B, Managerial Accountancy, Marketing, Marketing Research and Science, Media Studies, Organisational Behaviour, Organisational Change and Development, Organisational Communication, Organisational Design, Professional Accounting, Professional Writing, Editing & Publishing, Promotional Management, Public Policy, Public Relations, Public Sector Management, Retailing, Speech Communication.

COMMUNICATIONS MINOR

BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3

Select one of the following units:

COB106	Group Communication: Theory & Practice	12	3
COB166	Technical & Scientific Writing	12	3

ECONOMICS MINOR

BSB102	Management & Organisation	12	3
EPB124	Government	12	3
	Business Economics Elective Unit	12	3

Select one of the following units:

EPB140	Macroeconomics	12	3
EPB150	Microeconomics	12	3

MANAGEMENT MINOR

BSB102	Management & Organisation	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MKB140	Principles of Marketing	12	3
	Business Management Elective Unit	12	3

PRODUCTION MINOR

BSB102	Management & Organisation	12	3
	Business Production Elective Unit	12	3

Select one of the following units:

COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3

Select one of the following units:

MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3

FACULTY OF EDUCATION

EDUCATION MINOR

CPB342	Education in Context	12	3
CUB365	Introduction to Professional Practice in Education	12	3
LAB340	Language, Technology and Education	12	3
LEB335	Human Development and Education	12	3

FACULTY OF INFORMATION TECHNOLOGY

Computing Science Minors

COMPUTING SCIENCE MINOR 1

(for Data Communications primary major students)

ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in an Unix Environment)	12	3
	Computing Science Elective Unit	12	3
	Computing Science Elective Unit	12	3

COMPUTING SCIENCE MINOR 2

(for Information Management primary major students)

BSB102	Management & Organisation	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in an Unix Environment)	12	3
	Computing Science Elective Unit	12	3

COMPUTING SCIENCE MINOR 3

(for Information Systems primary major students)

ITB421	Data Structures & Algorithms	12	3
ITB431	Programming Language Paradigms	12	3
	Computing Science Elective Unit	12	3
	Computing Science Elective Unit	12	3

COMPUTING SCIENCE MINOR 4

(for Software Engineering primary major students)

ITB420	Computer Architecture	12	3
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ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
	Computing Science Elective Unit	12	3

Computational Intelligence Minor

ITB442	Foundations of Artificial Intelligence	12	3
ITB461	Foundations of Neurocomputing	12	3

plus two of:

ITB456	Intelligent Graphic User Interfaces	12	3
ITB462	Cognitive Systems	12	3
ITB463	Pattern Recognition	12	3

Data Communications Minor

(for non-Data Communications primary major students)

ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3
	Data Communications Elective Unit	12	3
	Data Communications Elective Unit	12	3

Information Management Minors

INFORMATION MANAGEMENT MINOR

(for non-Information Management primary major students)

BSB102	Management & Organisation	12	3
ITB331	Information Management 2	12	3
ITB341	Information Management 3	12	3
SSB937	Applied Cognitive Psychology	12	3

LIBRARY SERVICES MINOR

BSB102	Management & Organisation	12	3
ITP311	Collection Building & Acquisitions	12	3
ITP312	Organisation of Knowledge	12	3
ITP315	Library Programs Management	12	3

RECORDS MANAGEMENT MINOR

BSB102	Management & Organisation	12	3
ITP312	Organisation of Knowledge	12	3
ITP316	Field Experience	4	
ITP323	Introduction to Records Management	8	2
	Information Systems elective	12	3

Information Systems Minors

INFORMATION SYSTEMS MINOR 1

(for Computing Science, Data Communications and Software Engineering primary major students)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design	12	3
ITB241	Information Systems Management	12	3
	Information Systems Elective Unit	12	3

INFORMATION SYSTEMS MINOR 2

(for Information Management primary major students)

BSB102	Management & Organisation	12	3
ITB242	Decision Support Systems	12	3
	Information Systems Elective Unit	12	3
	Information Systems Elective Unit	12	3

INFORMATION SYSTEMS MINOR 3

(for Computing Science and Software Engineering primary major students)

ITB232	Database Management	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB243	Knowledge-based Systems	12	3
ITB249	Theoretical Foundations of Database Systems	12	3

SOFTWARE ENGINEERING MINOR

(for Computing Science primary major students)

ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

SOFTWARE ENGINEERING MINOR

(for Data Communications, Information Management or Information Systems primary major students)

ITB424	Software Engineering Principles	12	3
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3

Select one of the following units:

ITB423	Laboratory 4 (Software Development)		
ITB455	Integrated Software Engineering Environments	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

INFORMATION SYSTEMS/SOFTWARE ENGINEERING MINOR

(for Data Communications primary major students)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design	12	3
ITB420	Computer Architecture	12	3
ITB448	Object Technology	12	3

FACULTY OF SCIENCE

Minors are available in Biochemistry, Biology, Chemistry, Geology, Mathematics, Microbiology, Physiology and Physics.

MATHEMATICS MINOR

MAB212	Mathematics 1	12	4
MAB232	Discrete Mathematics	12	4

Select two of the following units:

ITB548	Introduction to Cryptology	12	3
MAB172	Statistical Methods	12	3
MAB620	Finite Mathematics	12	4
MAB637	Operations Research 1A	12	4

☐ Cooperative Education Program (Elective Unit ITB904 – Industrial Training Experience)

Aims

The purpose of the Cooperative Education Program is to provide students within the Bachelor of Information Technology experience of a real world environment prior to the study of the more advanced aspects of the course. This experience:

- enables the student to place the concepts learned in the first two years in context, and
- provides an experience that will enhance the benefits obtained from early study.

The Cooperative Education period necessarily involves reorientation and on-the-job training but students are expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers are not expected to provide formal training.

Selection Criteria

The Cooperative Education program is available to full-time students enrolled in the fourth semester of the Bachelor of Information Technology degree (IT20), ie will have credit points in the range of 144-192 by the end of the year prior to the commencement

of the program. Students are eligible to participate in the program if they have passed all units, or have a GPA (Grade Point Average) of at least 4.5. Students entering the course with exemptions for prior studies must have been exempted from no more than 96 credit points.

Features

The Cooperative Education Program is offered under the guise of the 24 credit point unit ITB904 Industrial Training Experience and has the following features:

- The Faculty assists students to obtain suitable employment for the one-year period and also discusses the nature of the work to be undertaken with the employer. As employers choose their placements from interviews, the Faculty also arranges for students to attend sessions on interview techniques conducted by the Counselling Centre.
- An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- During the training period the student writes two reports on the experience, submits them to the employer for endorsement and comment, and then hands them to the Administration Officer (Academic) for assessment. The reports should highlight different aspects of the period, and include comments and recommendations.
- Students will be assessed as either satisfactory or unsatisfactory in this unit. A satisfactory grade will be granted on the basis of:
 - (i) satisfactory completion of an approved period of cooperative education, and
 - (ii) submission of satisfactory reports on the year's experience. The reports must be submitted not later than the due dates specified in the study guides.
- A salary is paid to the student by the employer during this training period.
- The Faculty carefully monitors all cooperative education placements and keeps a list of employers prepared to offer training. The Faculty makes its best endeavour to find suitable training places for all students who meet the selection criteria and elect to undertake this option.
- It is intended that full-time students on the scheme will devote their prime efforts to the Industrial Training Experience and will not, therefore, be permitted to register for more than one other unit per semester during that year.

Notes

- (i) Where there has been significant evidence of plagiarism or computer misuse by a student at any time during the course, no placement will be available to that student.
- (ii) Part-time students may be eligible for credit for industry experience, subject to certain conditions. Students should consult the Administration Officer (Academic) in the Faculty for further information.

FACULTY OF LAW

LAW

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FACULTY OF LAW

Course Structures

■ Doctor of Juridical Science (LW50)

Location: Gardens Point campus

Course Duration: Minimum of 2 years full-time, 3 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48 (Average)

Course Coordinator: Professor W.D. Duncan

Entry Requirements

On the recommendation of the Dean of the Faculty of Law, the Research Management Committee may admit to candidature for the degree an applicant who:

- (i) holds or has completed the requirements for the degree of Bachelor of Laws at QUT with at least Second Class Honours Division A or its equivalent from another institution which in the opinion of the Dean maintains standards comparable with those required for the award of the degree of Bachelor of Laws at QUT, or
- (ii) is a graduate of another institution and is accepted by the Dean and the Research Management Committee as having qualifications equivalent to those specified in paragraph (i), or
- (iii) has either (a) completed the requirements for a degree of Bachelor of Laws at QUT or its equivalent from another institution which, in the opinion of the Dean maintains standards comparable with those required for the award of the degree of Bachelor of Laws at QUT, or (b) is admitted to practice as a barrister or solicitor in Queensland or another State or Territory of Australia or, who in the opinion of the Dean, is similarly qualified; and in both cases (a) and (b) has completed at least 48 credit points towards the requirements for a degree of Master of Laws at QUT or its equivalent from another institution which in the opinion of the Dean maintains standards comparable with those required for the award of the degree of Master of Laws at QUT; or
- (iv) holds or has completed the requirements for a degree of Master of Legal Practice at QUT,

and, in any of the situations above,

- (v) has a minimum of two years professional experience in a position of responsibility appropriate to the proposed course of study, and
- (vi) is recommended by the Dean as being suitably qualified in the particular field of study in which the applicant proposes to be a candidate.

Course Structure

Students undertake 108 credit points of coursework units taken from Schedule 1 and complete a dissertation component.

Stage 1

108 credit points of coursework units taken from Schedule 1 in the entry for LW51 Master of Laws by Coursework. (Schedule 1 lists units available in 1995).

Stage 2

Dissertation component (approximately 70,000 words).

Full-Time Course Structure

Students undertaking the dissertation component in the full-time mode enrol in LWR001 (36 credit points) for the first semester and LWR002 (48 credit points each) in subsequent semesters.

Part-Time Course Structure

Students undertaking the dissertation component in the part-time mode enrol in LWR101 (12 credit points) for the first semester and LWR102 (24 credit points) in subsequent semesters.

1. Studies During the Candidature

1.1 A candidate is required to complete successfully a course of study which results in a notable contribution to professional knowledge and practice. This contribution may be in the form of new knowledge and practice, or of significant and original adaptation, application and interpretation of existing knowledge and practice.

1.2 The degree comprises both coursework and a dissertation component which are of equal weight. Candidates will pursue an approved course of advanced study and research, comprising 108 credit points of coursework whether by approved projects or in courses offered by QUT (including courses selected from within the subject offerings for the LLM degree by coursework at a grade point average of at least 5.0). The candidate will also pursue a dissertation in accordance with Rules 3 and 6. One of the units studied for the coursework requirements must be Advanced Legal Research, or equivalents as approved by the Faculty's Postgraduate Studies Committee.

1.3 Candidates must successfully complete all coursework requirements at the appropriate standard prior to commencing the dissertation. As far as possible, the topic of the dissertation must extend the coursework component. Subject to Rule 3, the Postgraduate Studies Committee will approve the course of study for the degree prior to commencement and will recommend for each candidate an Academic Supervisor who will normally be the Principal Supervisor for the candidate's dissertation.

1.4 The Research Management Committee on the recommendation of the Dean of the Faculty of Law may approve a variation in a candidate's course of study and research.

2. Credit for Previous Studies/Transfer of Registration

The Research Management Committee on the recommendation of the Dean of the Faculty of Law may grant a candidate credit in the following circumstances:

2.1 Where a candidate has undertaken part of a proposed course of study as a registered student in another institution, and has undertaken coursework as part of a Master's degree, that candidate, through application in writing to Research Management Committee at the time of applying for registration, may have credit granted towards the candidate's course of study at QUT provided that the work for which a candidate seeks credit has been completed at a grade point average of at least 5.0 on a 7 point grading scale. The applicant must include details of the work already undertaken, the reasons for the transfer and the expected date of completion.

2.2 A candidate who has completed at least 48 credit points towards a Master's degree at QUT or elsewhere at a grade point average of 5.0 may apply for transfer to a doctoral degree in the professional field of law. The candidate shall prepare for the Research Management Committee a detailed progress report, and the Committee shall seek the advice through the Dean of the candidate's Academic Supervisor. Where coursework has been

undertaken as part of the Master's degree, a transfer normally may be approved only if the candidate has attained a grade point average of at least 5.0 on a 7 point scale.

2.3 Subject to these rules, a candidate who has completed a Master's degree in Law may be granted credit of up to 48 credit points for units passed for that degree at a grade point average of at least 5.0 on a 7 point scale.

2.4 Application for transfer normally should be submitted at least twenty-four months in advance of the probable date of completion of the dissertation component of the QUT Doctor of Juridical Science program.

2.5 The registration period for a doctoral degree in a professional field shall include such prior registration as may be approved by the Research Management Committee.

2.6 A candidate who is unable to complete the approved course of study may apply for transfer to an appropriate Master's degree.

3. Dissertation Requirements

3.1 When a candidate successfully completes the coursework component of the degree, the Academic Supervisor shall so certify to the Research Management Committee. The dissertation may not be commenced until the Committee receives such certification.

3.2 The dissertation must be presented in accordance with the requirements of the relevant rules of QUT.

3.3 Subject to the above and subject to the requirements of Rule 1, the candidate shall submit a detailed proposal for a topic for the dissertation to the Postgraduate Studies Committee at the time the candidate seeks approval for the candidate's course of studies.

3.4 The topic for the dissertation must involve both an appropriate theoretical perspective and a specific orientation to professional practice and application.

3.5 Normally, two supervisors shall be appointed for each dissertation prepared by a candidate. One supervisor shall be the Principal Supervisor, with responsibility for supervising the preparation of the dissertation on a frequent basis. The Principal Supervisor shall be a member of the QUT Faculty of Law. Recommendations of suitable persons to be Principal Supervisor and Associate Supervisor for a dissertation shall be made by the Postgraduate Studies Committee to the Dean and approved by the Research Management Committee.

3.6 A candidate enrolled for the degree shall, at least once per semester during the period of candidature, consult with the Principal Supervisor and, where appropriate, any Associate Supervisor.

3.7 A candidate shall participate in such University scholarly activity, such as research seminars, as are deemed appropriate by the Principal Supervisor.

4. Progress Reports

4.1 A candidate shall prepare at the end of each semester during which the dissertation is being written a statement in the appropriate form of the work done towards the degree and submit it to the Principal Supervisor.

4.2 The Principal Supervisor shall within a fortnight of receiving the candidate's statement of work prepare a report to be given to the candidate for comment. The candidate shall sign the report in acknowledgment of this and return it to the supervisor forthwith, together with any written comments the candidate may wish to make.

4.3 Both reports together with any accompanying comments by the candidate shall then be forwarded through the Faculty's Postgraduate Studies Committee and the Dean to the Research Management Committee.

4.4 Where, in the opinion of the Research Management Committee, a candidate has not made satisfactory progress towards completing the requirements for the degree, the Research Management Committee on the advice of the Dean shall call upon the candidate to show cause why the enrolment of the candidate should not be terminated for lack of satisfactory progress.

4.5 Upon failure of the candidate to show cause the candidate's enrolment will be terminated.

5. Time Limits

5.1 Subject to Rules 5.2 and 5.3, a candidate may proceed either on a full-time or part-time basis.

5.2 Subject to 5.3, and except in special circumstances and with the approval of the Research Management Committee, all candidates shall complete a minimum of 36 months' registration if a full-time student, or 54 months if a part-time student, or such other period as may be approved by the Research Management Committee.

5.3 Where the candidate is a holder of a Masters Degree in Law, the period of registration shall be not less than 24 months in the case of a full-time student and not less than 36 months in the case of a part-time student.

5.4 Except in special circumstances and with the approval of the Research Management Committee:

- (i) A full-time candidate shall complete all the requirements for the degree not later than 54 months after first registration.
- (ii) A part-time candidate shall complete all the requirements for the degree not later than 60 months after first registration.

6. Examination of the Dissertation

6.1 The candidate shall present a dissertation of approximately 70,000 words which shall constitute a substantial and original contribution to knowledge and understanding in the area of the law that is the subject of the research, in satisfaction of Rule 1.1. The dissertation must include a statement of objectives of the investigation and must acknowledge the sources from which the information is derived, the extent to which the work of others has been used, and that the work is original and otherwise complies with the University's requirements for presenting dissertations. Any substantial financial assistance received must also be acknowledged.

6.2 A candidate may not present as the dissertation any work which has been presented for another degree at QUT or any other institution.

6.3 Subject to agreement between supervisors and not later than three months before the proposed date for submission of the dissertation, the Principal Supervisor will recommend through the Faculty's Postgraduate Studies Committee to the Research Management Committee the composition of a proposed Examination Committee, together with the title of the candidate's dissertation.

6.4 In order to determine whether a dissertation is acceptable for examination, a candidate may be examined orally by a Law Faculty panel of three persons appointed by the Dean. The Principal Supervisor shall be one of those three persons and shall chair the panel. All available members of the Examination Committee should attend the oral examination. The examination will be based on the work described in the dissertation and the field of study in which the investigation lies. The candidate will provide sufficient copies of the dissertation, bound in temporary cover, for the panel and the examiners.

6.5 The Faculty Panel will advise the Postgraduate Studies Committee and the Research Management Committee whether the dissertation is acceptable for examination. If it does,

the dissertation, in the format required by QUT, must be presented to the Research Management Committee together with certification that the dissertation has been accepted by the Law Faculty. Receipt of the dissertation by the Research Management Committee constitutes submission of the candidate's dissertation for examination. The candidate's Principal Supervisor shall forward proposed arrangements for examination of the dissertation through the Law Faculty Postgraduate Studies Committee to the Research Management Committee for approval.

6.6 A dissertation shall normally be examined by an Examination Committee comprising one examiner from the QUT Faculty of Law, who shall chair the Committee, and two external examiners. The external examiners must be independent of QUT. The Research Management Committee will provide the examiners with a copy of the dissertation and of all relevant requirements and information. Normally, examiners must read and report upon the dissertation within two months of its receipt.

6.7 When the examiners are in agreement with respect to the dissertation, the Chairperson shall transmit the result of the examination on the prescribed form to the Chairperson of the Research Management Committee. The examiners' report shall recommend (i) that the dissertation be accepted, with or without minor modifications, or (ii) that the candidate be re-examined, or (iii) that the dissertation not be accepted and the candidature be terminated. When the recommendation is that the dissertation be accepted, the chairperson must return an Examiners' Report together with a certificate signed by each examiner recommending acceptance of the dissertation towards fulfilment of the conditions for the award of the Doctor of Juridical Science degree.

7. Award of Degree

7.1 In order to qualify for the award of the Doctor of Juridical Science degree, a candidate must submit to the Research Management Committee:

- (i) a declaration signed by the candidate that he or she has not been a candidate for another tertiary award during the period of candidature without the permission of the Research Management Committee, and
- (ii) a certificate recommending acceptance of the dissertation towards fulfilment of the conditions for the Doctor of Juridical Science degree signed by each member of the Faculty Panel that recommended examination of the dissertation, and the Examination Committee which accepted it, together with three copies of the dissertation in the format required by the Queensland University of Technology, and
- (iii) a certificate of satisfactory completion of the candidate's approved course of study signed by the candidate's Academic Supervisor, and
- (iv) an application for conferral of the degree.

7.2 When the degree has been awarded, a copy of the dissertation incorporating any required amendments and revisions shall be lodged in the University and the Law Libraries.

■ Master of Laws by Coursework (LW51)

Location: Gardens Point campus

Course Duration: 1 year full-time, 3 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor W.D. Duncan

Entry Requirements

Applicants for admission shall have satisfied one of the following conditions:

- (i) completed the requirements for the degree of Bachelor of Laws of QUT
- (ii) completed the requirements for the award of a degree in law of another tertiary institution which, in the opinion of the Dean, maintains standards comparable with those required for the award of the degree of Bachelor of Laws of QUT
- (iii) hold a professional qualification in law and at least three years of professional legal experience subsequent to first admission to practice and also satisfy the Dean that they have the requisite ability to complete the LLM by Coursework degree.

Course Structure

The course structure comprises 96 credit points of coursework units for a Pass degree together with a dissertation for an Honours degree.

The units from which 96 credit points shall be chosen are subject to availability.

Full-Time Course Structure

Year 1, Semesters 1 and 2

Units taken from Schedule 1 for any given year equal to 48 credit points per semester. (Whole year units are counted as 12 credit points per semester).

Part-Time Course Structure

Year 1, Semesters 1 and 2

Units taken from Schedule 1 for any given year equal to a minimum of 12 credit points per semester. (Whole year units are counted as 12 credit points per semester).

Year 2, Semesters 1 and 2

Units taken from Schedule 1 for any given year equal to a minimum of 12 credit points per semester. (Whole year units are counted as 12 credit points per semester).

Year 3, Semesters 1 and 2

Units taken from Schedule 1 for any given year equal to a minimum of 24 credit points per semester. (Whole year units are counted as 12 credit points per semester).

Schedule 1 – Accredited Coursework Units

	Credit Points
LWN003	Advanced Family Law ^{1,2}
LWN008	Commercial Leases ^{1,2}
LWN017	Restitution ²
LWN018	Select Problems of Trusts ²
LWN020	Non-resident & Foreign Source Taxation
LWN021	Banking & Finance Law 1 ²
LWN022	Banking & Finance Law 2 ²
LWN024	Select Problems of Tribunals and Enquiries
LWN025	Research Project 1A ²
LWN026	Research Project 2A ^{1,2}
LWN028	Advanced Securities ²
LWN029	Theoretical Criminology
LWN030	Dispute Resolution/Mediation ²
LWN031	Foreign Investment Law & Practice ²
LWN032	Credit for UQ Subject 1 ²
LWN033	Credit for UQ Subject 2 ²

¹ Unit extends over two semesters.

² It is intended that these units will be offered in 1995 subject to demand and availability of staff.

LWN034	Credit for UQ Subject 3 ^{1,2}	24
LWN035	Medico-legal Issues	12
LWN036	Select Issues of Intellectual Property Law	12
LWN037	Stamp Duty and Commercial Transactions	12
LWN038	Capital Gains Tax and Commercial Transactions	12
LWN039	Applied Criminology	12
LWN040	Theories of Justice 1 ²	12
LWN041	Economic Analysis of the Law	12
LWN042	Theories of Justice 2 ²	12
LWN043	Law of Company Takeovers ²	12
LWN044	Institutional Investors	12
LWN045	The Law Relating to Public and Official Corruption ²	12
LWN046	Advanced Planning Law ²	12
LWN047	Legal Education ²	12
LWN048	Advanced Legal Research ²	12
LWN049	International Environmental Law	12
LWN050	Restrictive Trade Practices Law ²	12
LWN051	Consumer Protection & Product Liability ²	12
LWN052	Litigation – Civil Procedure ²	12
LWN053	Research Project 1B ²	12
LWN054	Contemporary Commercial Legal Issues ²	12
LWN055	Civil Rights ²	12
LWN056	Research Project 1C ²	12
LWN057	Research Project 1D ²	12
LWN058	Research Project 2B ^{1,2}	24
LWN059	Remedies	12
LWN060	Environmental Legal System ²	12
LWN061	Natural Resources Law ²	12
LWN062	Federal Environmental Law	12
LWN063	Comparative Environmental Law ²	12
LWN064	Theories of Contemporary Legal Critiques ²	12
LWN065	Construction & Engineering Law ²	12
LWN066	Advanced Insurance Law ^{1,2}	24
LWN070	Credit for UQ Subject 4 ²	12
LWN071	Credit for UQ Subject 5 ²	12
LWN072	Credit for UQ Subject 6 ^{1,2}	24
LWN075	International Commercial Transactions ²	12
LWN076	International Commercial Disputes ²	12
LWN077	Litigation – Evidence ²	12

LWN100 Honours Dissertation

A coursework student who has obtained 96 credit points and who has a grade point average of 6.0 or better for all units attempted shall be eligible to enrol for an Honours Dissertation. A coursework student who has obtained 96 credit points and who has obtained a grade point average of better than 5.5 and less than 6.0 for all units attempted shall, with the prior approval of the Director of Postgraduate Studies, be eligible to enrol for an Honours Dissertation.

Students who intend to undertake the Honours Dissertation should indicate their intention before the end of their last semester of study.

The Honours Dissertation shall be not less than 20,000 words and not more than 30,000 words in length, and shall be prepared in accordance with the paper *Presentation of Legal Theses* by E.M. Campbell, copies of which are held in the Law Library. It shall include a title page, table of contents and bibliography.

Applications to undertake an Honours Dissertation must be made on the prescribed form available from the Faculty office, detailing topic, proposed supervisor, etc. The obligation

¹ Unit extends over two semesters.

² It is intended that these units will be offered in 1995 subject to demand and availability of staff.

for finding a supervisor lies with the student. A list of research interests of Faculty staff is released in October of each year. Applications close in the second week of the semester in which the student is enrolled for the Honours dissertation. Students are advised of the success or otherwise of their applications no later than Week 4 of the semester in which the student is enrolled. If the topic and supervisor are approved, the student shall pursue their research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of their dissertation to the Dean of the Faculty of Law. The dissertation must be submitted no later than the last day of the examination period of the second consecutive semester. On submission of the dissertation, the student shall furnish a signed statement that the dissertation is their work alone, except where due acknowledgment is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma. The dissertation shall be referred to two examiners. Each examiner shall report as to whether, in his or her opinion, the dissertation is of sufficient merit and is one that is likely to be accepted for publication by a learned journal. Each examiner shall also recommend that the dissertation:

- (i) be accepted, or
 - (ii) not be accepted, or
 - (iii) be accepted subject to amendments to be made to the satisfaction of the supervisor,
- and, in any event, shall recommend that the dissertation be awarded a grade of fail or one of the pass grades. Following acceptance of the dissertation, two copies shall be bound in an approved form at the student's expense and one copy submitted to the Law Librarian for deposit in the QUT Faculty of Law Library and the other copy submitted for inclusion in the Queensland University of Technology Library. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by retyping if they would otherwise be obtrusive.

■ Master of Laws by Research and Thesis (LW52)

Location: Gardens Point campus

Course Duration: Minimum of 1 year full-time, 2 years part-time

Total Credit Points: 96

Course Coordinator: Professor W.D. Duncan

1. Rules for the Master of Laws Degree by Research and Thesis

1.1 The following rules apply to the degree of Master of Laws to be obtained by research and thesis awarded by the Queensland University of Technology, and are made with the authority of the Academic Committee of this University.

2. Master of Laws Degree by Research and Thesis

2.1 The Master of Laws (LLM) degree by Research and Thesis may be awarded as:

2.1.1 Master of Laws, or

2.1.2 Master of Laws with First Class Honours, or

2.1.3 Master of Laws with Second Class Honours.

3. Entry Requirements

The following persons shall be eligible to apply for admission as a student for the degree:

3.1 A person who has completed the requirements for the degree of Bachelor of Laws of QUT with at least Second Class Honours Division A, or its equivalent from another institution

which, in the opinion of the Dean of the Faculty of Law, maintains standards comparable with those required for the award of the degree of Bachelor of Laws of QUT, or

3.1.1 A person who has completed the requirements for the degree of Bachelor of Laws of QUT at a standard of Second Class Honours Division B or a lesser standard, or its equivalent from another institution which, in the opinion of the Dean, maintains standards comparable with those required for the award of the degree of Bachelor of Laws of QUT, or

3.1.2 A person admitted or entitled to be admitted to practice in the State of Queensland.

3.2 Candidates falling within sub-clauses 3.1.1 and 3.1.2 must also satisfy the following to be eligible for admission:

3.2.1 Three years' professional experience in the field in which the proposed research work is to be undertaken, or

3.2.2 Satisfactory completion of an appropriate master's qualifying program stipulated by the Director of Research and Postgraduate Studies on the recommendation of the Postgraduate Studies Committee. Pending satisfactory completion of a qualifying program, provisional status may be granted to the candidate, or

3.2.3 The submission of professional publications or other appropriate evidence which satisfies the Director of Research and Postgraduate Studies on the recommendation of the Faculty's Postgraduate Studies Committee that advanced knowledge and research ability has been acquired in the field of law in which the proposed research work is to be undertaken, and

3.2.4 The Dean of the Faculty of Law is satisfied of the ability of the candidate to complete the required research and thesis towards the degree.

4. Admission and Enrolment

4.1 A person applying for admission shall do so through the Registrar to the Dean.

4.2 Admission of a person as a candidate for the degree shall be at the discretion of the Dean on the recommendation of the Faculty's Postgraduate Studies Committee.

4.3 A person applying for admission as a candidate for the degree shall apply in accordance with the requirements of the Registrar and shall pay all prescribed fees.

4.4 A person admitted as a candidate may enrol as either an internal full-time student or an internal part-time student.

5. Progress Reports

5.1 A candidate shall prepare within two weeks following the end of each semester a statement of the work done towards the degree and submit it to the appointed supervisor.

5.2 The supervisor shall prepare a report on the work done by the candidate during that semester and the report shall be given to the candidate for comment, and the candidate shall sign the report in acknowledgment of this and return it to the supervisor.

5.3 Both reports together with any accompanying comments by the candidate shall then be forwarded through the Faculty's Postgraduate Studies Committee and the Dean to the University's Research Management Committee within four weeks following the end of that semester.

5.4 Where, in the opinion of the Research Management Committee, a candidate has not made satisfactory progress towards completing the requirements for the degree, the Research Management Committee on the advice of the Dean shall call upon the candidate to show cause why the enrolment of the candidate should not be terminated for lack of satisfactory progress.

5.5 Upon failure of the candidate to show cause the candidate's enrolment will be terminated.

6. Thesis Requirements

6.1 The thesis submitted for the degree shall be not less than 50,000 words and not more than 60,000 words in length and shall constitute a substantial contribution to knowledge and understanding in the area of the law and subject of the research. It shall include a title page, table of contents and bibliography, and shall otherwise comply with the University's requirements for presenting theses.

6.2 The candidate shall submit a detailed proposal for a topic for the thesis to the Dean not later than the end of February or August, as the case may be, in the year in which the candidate is enrolled.

6.3 The Faculty's Postgraduate Studies Committee may, upon the recommendation of the Dean, vary the title of the thesis topic.

6.4 A candidate enrolled for the degree shall, at least once per semester during the period of candidature, consult with the supervisor and, where appropriate, any co-supervisor appointed by the Law Academic Board on the advice of the Dean.

6.5 A candidate shall submit four copies of the thesis in the form prescribed by the University for the submission of theses to the Dean not later than the end of November or May, as the case may be, in the year in which the candidate is required to complete the degree. On submission of the thesis, the candidate shall furnish a written statement to the effect that the thesis is that candidate's work alone, except where due acknowledgment is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma.

6.6 The Postgraduate Studies Committee shall refer the thesis to two examiners, at least one of whom must be external to the University. Each examiner shall report, normally within two months of receipt of the thesis, whether in the examiner's opinion, the thesis is of the standard required for the award of the degree. Each examiner shall also recommend that the thesis:

- (i) be accepted
- (ii) not be accepted, or
- (iii) be accepted subject to amendments to be made to the satisfaction of the supervisor, and
- (iv) if accepted, whether the degree be awarded with First Class Honours, Second Class Honours or as a Pass degree.

6.7 The Faculty's Postgraduate Studies Committee shall forward the examiners' reports to the Law Academic Board together with its recommendation.

6.8 The Academic Board shall thereafter refer the examiners' reports to the Research Management Committee with its recommendations.

6.9 Following final acceptance of the thesis, two copies shall be bound in the prescribed form at the candidate's expense and one copy submitted to the QUT Faculty of Law Library and the other copy submitted to the Queensland University of Technology Library and shall otherwise be treated in accordance with University policy. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by retyping if they would otherwise be obtrusive.

7. Credit for Research Work Done Elsewhere

7.1 The Dean, on the advice of the Director of Research and Postgraduate Studies, may grant credit toward the Master of Laws degree by Research and Thesis for work done at

another institution of similar standing. Such credit shall not be granted unless the candidate provides to the Dean:

- (i) evidence that the candidate has cancelled or terminated enrolment at the other institution, and
- (ii) a written undertaking that the candidate will not seek credit in any form or manner for work done at the other institution or any other institutions except to complete the degree at QUT.

8. Time for Completion Requirements

8.1 Except in special circumstances and with the approval of the Director of Research and Postgraduate Studies:

- (i) a full-time candidate shall complete all the requirements for the degree not earlier than the end of the second semester and not later than the end of the sixth semester of candidature
- (ii) a part-time candidate shall complete all the requirements for the degree not earlier than the end of the fourth semester and not later than the end of the tenth semester of the candidature.

8.2 The Dean may, upon the application of the candidate and on the advice of the Director of Research and Postgraduate Studies, extend any time limited by the rules by such further period as may be consistent with general University rules.

9. Award of Degree

9.1 A candidate who has fulfilled the requirements of these rules and who has otherwise complied with the provisions of all statutes and other rules applicable may be admitted to the degree of Master of Laws at the grade which the Academic Committee on the recommendation of the Law Academic Board and Research Management Committee recommends for the award.

■ Master of Legal Practice (LP51)

Location: Gardens Point campus

Course Duration: Minimum of one semester and maximum of three semesters, following completion of the Graduate Diploma in Legal Practice.

Total Credit Points: 144 (including 96 credit points for the Graduate Diploma in Legal Practice)

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor John de Groot

Entry Requirements

To be eligible for admission to the Master of Legal Practice an applicant shall:

- ☐ hold or be entitled to be admitted to an approved bachelors degree in law;
- ☐ have:
 - (i) satisfactorily completed the requirements for the Graduate Diploma in Legal Practice at a high level of achievement (GPA of at least 5.0); or
 - (ii) a Graduate Diploma in Legal Practice and have at least 3 years of professional experience in a law related field and satisfy the Dean that they have the requisite ability to complete the MLP research dissertation; and

- otherwise satisfy entry requirements equivalent to those of the LLM offered by the Faculty of Law.

Course Structure

Students must complete a Research Dissertation in a minimum of one semester. Refer to information given under the heading Research Dissertation which follows.

It is expected that the Research Dissertation will relate to one of the core unit areas covered in the Graduate Diploma in Legal Practice and have an 'applied law' orientation.

Set out below are examples of topics which indicate the type of Research Dissertation expected:

- Law and practice difficulties in staged resort development.
- A comparative and effectiveness analysis of 'judgement by default' procedures and practices in the District, Supreme and Federal Courts.
- Jurisdictional issues and procedural difficulties in obtaining injunctive relief in the Supreme, Federal and Family Courts.

Full-Time Course Structure

Students undertaking the Master of Legal Practice in the full-time mode enrol in LPN301 Research Dissertation (48 credit points).

Part-Time Course Structure

Students undertaking the Master of Legal Practice in the part-time mode over two semesters enrol in LPN300 Research Dissertation (24 credit points).

Students undertaking the Master of Legal Practice in the part-time mode over three semesters enrol in LPN302 Research Dissertation (24 credit points) for one semester and enrol in LPN303 Research Dissertation (12 credit points) and LPN304 Research Dissertation (12 credit points) in the two subsequent semesters.

Students are advised to contact the Course Coordinator prior to final enrolment to ensure that they undertake the course in the manner most beneficial to successful study.

Research Dissertation (LPN300, LPN301, LPN302, LPN303 or LPN304)

The Research Dissertation shall be approximately 20,000 words in length, and shall be prepared in accordance with the paper *Presentation of Legal Theses* by E.M. Campbell, copies of which are held in the Law Library. It shall include a title page, table of contents and bibliography.

A student shall submit a topic for the dissertation to the Director of Legal Practice not later than the end of February in the year in which they are enrolled for the Master of Legal Practice. At the same time, students shall submit the name of a supervisor willing to supervise the dissertation. If the topic and the supervisor are considered by the Director of Legal Practice to be satisfactory, the Director shall recommend approval of the topic and the supervisor by the Postgraduate Studies Committee. On approval of the topic and the supervisor by the Postgraduate Studies Committee the student shall pursue his or her research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of his or her dissertation to the Director of Legal Practice not later than 18 months after the date on which they enrolled for the Master of Legal Practice. On submission of the dissertation, students shall furnish a signed statement that the dissertation is the student's work alone, except where due acknowledgment is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma. The Postgraduate Studies Committee shall refer the

dissertation to two examiners recommended to it by the Director of Legal Practice. One of the examiners shall normally be a practitioner specialising or experienced in the area addressed in the dissertation and the other a Faculty member. Each examiner shall report as to whether in his or her opinion, the dissertation is of sufficient merit and is one that is likely to be accepted for publication by a learned journal. Each examiner shall also recommend that the thesis:

- (i) be accepted; or
- (ii) not be accepted; or
- (iii) be accepted subject to amendments to be made to the satisfaction of the supervisor.

Following acceptance of the dissertation, two copies shall be bound in an approved form at the student's expense and one copy submitted to the QUT Faculty of Law Library and the other copy submitted for inclusion in the Queensland University of Technology Library. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by retyping if they would otherwise be obtrusive.

■ Graduate Diploma in Legal Practice (LP41)

Location: Gardens Point campus

Course Duration: This is a full-time course beginning in February each year and lasting one academic year, ie at least 31 teaching weeks, divided into two semesters which do not normally coincide with the University's normal semesters. There is a three-week break between the semesters and a one-week break in second semester.

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor John de Groot

Entry Requirements

1. Eligibility for Normal Entry

1.1 To be eligible for a place in the Graduate Diploma in Legal Practice applicants must hold, or be entitled to, an approved degree in law by the date the Course commences.

2. Approved Degree in Law

2.1 An approved degree in law is a degree in which an applicant passed all the units required for admission as a solicitor of the Supreme Court of Queensland, whether as part of the degree or through additional study.

2.2 If an applicant has a degree from a university not in Queensland, the applicant must submit a letter from the Secretary of the Queensland Solicitor's Board stating that the applicant has passed all the units required for admission as a solicitor, whether as part of the degree or through additional study.

3. Special Entry Where Applicants do not hold an Approved Degree

3.1 Applicants who are not eligible for normal entry may apply for special entry. An application for special entry must be accompanied by a written statement setting out reasons for applying for special entry.

3.2 Applications for special entry will not be considered unless there are places available in the course after places have been allocated to applicants who are eligible for normal entry.

4. Application

4.1 Applications will be considered only after the applicants:

- (a) attend an interview with the Director of Legal Practice (or nominee) or an approved interview session, and
- (b) comply with the University's requirements for admission to postgraduate courses.

5. Allocation of Places

5.1 If there are more applicants than quota places by the date applications for places in the Course are due (the due date), places will be allocated:

- (a) as to no less than 80 per cent of places, based on the relative preparedness of applicants for the course determined by reference to the units listed in 5.2 below completed before the course commences
- (b) as to up to 20 per cent of quota places, as determined by the Dean having regard to:
 - (i) the Faculty's Equity Policy
 - (ii) academic merit (usually first class or 2A honours at QUT or equivalent) or graduated or expect to graduate within the top 5% of the applicant's graduating class
 - (iii) whether completion of the course is required by the applicant's employer, or
 - (iv) extraordinary circumstances.

5.2 The units on which preparedness for the course is determined are those determined by the Academic Board. 1995 units are listed below.

Units studied over two semesters will receive preference over those studied over one semester. Units studied as discrete units will receive preference over those studies studied as a part of a unit incorporating other units. Where a number of applicants rank equally on the basis of units, their ranking *inter se* will be determined on their relative academic merit.

Introduction to Law/Legal Systems
Contract
Torts
Legal Research & Writing
Criminal Law & Procedure
Land Law
Constitutional Law
Administrative Law
Equity & Trusts
Commercial Law
Evidence
Securities or Legal Transactions
(incorporating Securities)

Succession
Introductory Accounting
Company Law & Partnership
Taxation Law
Civil Procedure or Practice
Professional Conduct
Legal Drafting
Family Law
Land Contracts or Conveyancing
or Vendor & Purchaser
Solicitors Trust Accounts

5.3 To be considered for a place under rule 5.1(b), an applicant must be eligible for normal entry, complete the requirements in rule 4. above, and make a written submission to the Dean through the Director of Legal Practice by the due date.

If the application relies on the Faculty's Equity Policy, the submission must state the provisions of the Equity Policy under which the application is being made as well as all other matters which the applicant would like taken into consideration.

Submissions based on other grounds should also state all the matters which the applicant would like taken into consideration. Any relevant supporting documentation, such as letters from employers, medical certificates etc, must be attached.

Course Structure

Credit Points

Semester 1

LPP001/1 Legal Practice

48

Semester 2

LPP001/2 Legal Practice

48

Content

Seven core areas are addressed and, within these areas, 22 topics are covered. The core areas and topics are:

PROPERTY

Conveyancing Practice

Lease Practice

Town Planning & Environment

FAMILY

Family Law Practice

Legal Aid

BANKING & FINANCE

Securities

Creditors' Remedies

ADMINISTRATION OF

ESTATES & WILLS

Administration of Estates

Wills

COMMERCIAL

Commercial Transactions

Company Practice

Insurance Law

Trade Practices

LEGAL PROFESSIONALISM

& SKILLS

Advocacy

Legal Drafting

Legal Interviewing & Communication

Legal Profession & Professional

Conduct

Management Skills

Negotiation & Dispute Resolution

LITIGATION

Civil Litigation

Criminal Law Practice

Industrial Law

Attendance

- (i) Subject to (ii) below, a student must, throughout the course, attend at the University or wherever the course is being conducted at any given time from 9 am to 5 pm and at such other times as may be specified on each weekday which is not a public holiday in Queensland and which does not fall within a course recess, and must participate in all the appropriate course activities.
- (ii) A student who is absent from the course for more than an aggregate of seven days will be refused a Certificate of Satisfactory Completion of the course unless he or she shows cause to the Dean of the Faculty of Law why such a Certificate should be granted. Such cause might be the circumstance that the student has completed in their own time to the satisfaction of the senior full-time instructor of the Legal Practice course all work missed during the period/s of absence.

Assessment

Throughout the course there will be continuous assessment of the performance of each student. This will be based on attendance, conduct, application and, most of all, proficiency.

A student whose performance is deemed to be unsatisfactory as regards any area of practice or any part of such an area must repeat such part of the course as he or she is directed to repeat.

Other Requirements

The Dean of the Faculty of Law may require students to comply with such other regulations relating to the Legal Practice course as may be notified from time to time.

Certificate of Satisfactory Completion, Graduate Diploma in Legal Practice

Subject to the rules set out above, each student who satisfactorily participates in and completes each part of the course and who complies with all the requirements relating to the course will receive a Certificate of Satisfactory Completion of the Legal Practice Course and will be awarded a Graduate Diploma in Legal Practice.

■ Bar Practice Course

Warden: J. Pastellas, BA LLB *Qld*, GradDipLegalPrac *QIT*, LLM *Qld*, Solicitor of the Supreme Court of Queensland.

The Bar Practice Course is offered by the Bar Practice section of the Legal Practice unit located at the Gardens Point campus. The course was first offered in 1983 and is a joint venture between the Bar Association of Queensland and QUT within the administrative structure of the Faculty of Law. It is subject to a Management Committee consisting of three members appointed by the Bar Association, three members appointed by the University, and a Chief Executive Officer, designated Warden, who is a member of the academic staff of the Faculty of Law.

The objectives of the Bar Practice Course are:

- (i) to develop and enhance the practice skills of candidates for admission to the Bar of the Supreme Court of Queensland, and
- (ii) to concern itself with training and standards directed towards the achievement of the highest possible levels of competence and professional integrity in the members of the Bar of the Supreme Court of Queensland.

All sessions are practical and are substantially conducted by members of the judiciary, the magistracy and the senior Bar, and are directed towards practice and applications. Knowledge of substantive law units is presumed.

The course has a four-week full-time component, and an intensive advocacy weekend workshop, presented to students (readers) who have qualified in Law from universities or the Bar Board, and who wish to practise as Barristers.

■ Bachelor of Arts (GU)/Bachelor of Laws (LX32)

Course Discontinued: This course is being phased out. There will be no further intakes.

Location: Gardens Point campus (Law component)

Course Duration: 5 years full-time

Standard Credit Points/Full-Time Semester: 50.25 (Law component)

Course Coordinator: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree does not affect the Law component of the Bachelor of Arts (GU)/Bachelor of Laws degree offered by the University as this course is being discontinued.

Students completing the BA(GU)/LLB after 1994 will be required to undertake some elective units to substitute for units no longer available in the program.

Students must complete the old course structure of 354-366 credit points in the law degree component of the course to be eligible to graduate. Students should refer to their Transition Agreement for individual study programs.

Full-time Course Structure (Continuing students only)		Credit Points	Contact Hrs/Wk
Year 5, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁴	24	
Year 5, Semester 2			
LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ⁴	12	

Elective Units

For availability of law elective units, refer to the relevant section in the Bachelor of Laws course entry. The offering of elective units in any semester will be dependent on sufficient minimum enrolments in the unit and the availability of staff. The choice of all electives is subject to the approval of the Dean of Faculty.

■ Bachelor of Business – Accounting (USQ)/Bachelor of Laws (LX33)

Course Discontinued: This course is being phased out. There will be no further intakes.

Location: Gardens Point campus (Law component)

Course Duration: 5 years full-time

Standard Credit Points/Full-Time Semester: 33.6 (Law component)

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The restructured degree affects the Law component of the Bachelor of Business (Accounting) (USQ)/Bachelor of Laws degree offered by the University.

Full-time Course Structure (Continuing students only)		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3

⁴ A student is required to complete 48 credit points of elective units, and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units or courses offered by other Faculties but limitations are imposed on the number of introductory units or courses which may be undertaken. Before undertaking such units or courses, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Year 2, Semester 2

LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3

Year 3, Semester 1

LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3

Year 3, Semester 2

LWB232/2	Criminal Law & Procedure	12	3
LWB235	Australian Federal Constitutional Law	12	3

Year 4, Semester 1

LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB331	Administrative Law	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ^{3,4}		

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ^{3,4}		

Elective Units

For availability of law elective units, refer to the relevant section in the Bachelor of Laws course entry. The offering of elective units in any semester will be dependent on sufficient minimum enrolments in the unit and the availability of staff. The selection of all electives is subject to the approval of the Dean of Faculty.

■ Bachelor of Laws (LW33)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Malcolm Cope

³ This course structure represents only the law degree component of the course.

⁴ A student is required to complete 48 credit points of elective units, and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units or courses offered by other Faculties but limitations are imposed on the number of introductory units or courses which may be undertaken. Before undertaking such units or courses, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Transitional Arrangements

In 1994 the Law Faculty introduced a restructured Bachelor of Laws degree. The final two years of the four year full-time program (or the equivalent units in other Law programs) will be introduced in 1995.

All students enrolled in LW31 who are required to undertake elective units must take only law elective units.

From 1995, students enrolled in LW33 may apply to undertake elective units from other Faculties. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.

Full-time Course Structure (LW33)

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3
LWB134	Research and Legal Reasoning	12	3
Year 1, Semester 2			
LWB131/2	Law in Context	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
Year 2, Semester 2			
LWB232/2	Criminal Law & Procedure	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
Year 3, Semester 1			
LWB331	Administrative Law	12	3
LWB332	Property 2	12	3
	Elective Units ⁵		
Year 3, Semester 2			
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3
	Elective Units ⁵		
Year 4, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁵		

⁵ A student is required to complete 96 credit points of elective units, and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units offered by other Faculties but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Year 4, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
Elective Units ⁵			

Professional Recognition for Admission to Practice

NEW COURSE – LW33

The new course structure (LW33) will enable students to meet the academic requirements for admission to practice as a Solicitor or Barrister in Queensland. However, the new admission requirements for admission as a Barrister or Solicitor in all of the Australian jurisdictions including Queensland are undergoing major review following National Mutual Recognition legislation.

Whilst the Faculty of Law will seek to advise students as early as possible when Admission Rules are amended, students should also contact the Queensland Solicitors/Barristers Boards for more information.

OLD COURSE – LW31

The old course structure (LW31) contains units which if undertaken by students meet the academic requirements for admission to practice as a Solicitor or Barrister in Queensland at the time of publication.

Students who wished to satisfy the academic requirements of the Solicitors' Board must have included the following units in their courses: LWB302 Family Law, LWB312 Land Contracts and LWB405 Solicitors' Trust Accounts.

Students who wished to satisfy the academic requirements of the Barristers' Board must have included the following units in their courses: LWB305 Jurisprudence and LWB407 Conflicts of Law.

Students should also refer to the Barristers' Admission Rules (Rule 16) regarding the law elective units which were acceptable for admission under the Admission Rules at the time of publication. LWB306 Local Government and Planning Law is not an acceptable unit under Rule 16.

Part-time Internal and External Course Structure – LW33

Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research & Legal Reasoning	12	3

Year 1, Semester 2

LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3

Year 2, Semester 1

LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3

Year 2, Semester 2

LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3

⁵ A student is required to complete 96 credit points of elective units, and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units offered by other Faculties but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Year 3, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property I	12	3
LWB234/1	Equity & Trusts	12	3

Year 3, Semester 2

LWB233/2	Property I	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3

Year 4, Semester 1

LWB232/1	Criminal Law & Procedure	12	3
LWB331	Administrative Law	12	3
	Elective Units ⁵		

Year 4, Semester 2

LWB232/2	Criminal Law & Procedure	12	3
LWB333	Theories of Law	12	3
	Elective Units ⁵		

Year 5, Semester 1

LWB332	Property 2	12	3
	Elective Units ⁵		

Year 5, Semester 2

LWB334	Corporate Law	12	3
	Elective Units ⁵		

Year 6, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁵		

Year 6, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ⁵		

Special Accelerated Full-time Course Structure for Graduates (LW33)

A graduate of any degree course approved by the Dean of the Faculty of Law is eligible to complete the Bachelor of Laws course in three years (six semesters) of full-time study.

A graduate of any degree course approved by the Dean may be deemed to have passed the equivalent of 48 credit points of elective units and may be granted credit for such units.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3
LWB134	Research & Legal Reasoning	12	3
Year 1, Semester 2			
LWB131/2	Law in Context	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3
LWB135	Legislation	12	3

⁵ A student is required to complete 96 credit points of elective units, and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units offered by other Faculties but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Year 2, Semester 1

LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3

Year 2, Semester 2

LWB232/2	Criminal Law & Procedure	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB334	Corporate Law	12	3

Year 3, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁴		

Year 3, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ⁴		

Special Accelerated Part-Time and External Course Structure for Graduates (LW33)

A graduate of any degree course approved by the Dean of the Faculty of Law is eligible to complete the Bachelor of Laws course in five years (10 semesters) of part-time study.

A graduate of any degree course approved by the Dean may be deemed to have passed the equivalent of 48 credit points in elective units and may be granted credit for such units.

Note: The accelerated nature of the graduate course structures results in a credit point loading equivalent to that of a full-time student. Consequently enrolment in these programs will attract student guild fees and HECS liability calculated at full-time rates.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research & Legal Reasoning	12	3
Year 1, Semester 2			
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	3
LWB232/1	Criminal Law & Procedure	12	3
Year 2, Semester 2			
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	3
LWB232/2	Criminal Law & Procedure	12	3

⁴ A student is required to complete 48 credit points of elective units and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units or courses offered by other Faculties but limitations are imposed on the number of introductory units or courses which may be undertaken. Before undertaking such units or courses, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

Year 3, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3

Year 3, Semester 2

LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3

Year 4, Semester 1

LWB331	Administrative Law	12	3
LWB332	Property 2	12	3
	Elective Units ⁴		

Year 4, Semester 2

LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3
	Elective Units ⁴		

Year 5, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units ⁴		

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units ⁴		

Law Elective Units

All elective units are to be 8 credit points with two hours of contact/work per week unless justification is provided for an elective to be 12 credit points with 3 hours of contact/work per week.

LWB302	Family Law	12	3
LWB306	Local Government and Planning Law	8	2
LWB307	Insolvency Law	12	3
LWB308	Industrial Law	8	2
LWB309	Succession	8	2
LWB312	Land Contracts	12	3
LWB313	Discrimination/Equal Opportunity Law	12	3
LWB351	Aboriginal and Islander Legal Issues	8	2
LWB353	Advanced Administrative Law	8	2
LWB354	Advanced Civil Procedure	8	2
LWB359	Advanced Taxation Law	12	3
LWB361	Drafting	8	2
LWB363	Insurance Law	8	2
LWB364	Introduction to Taxation Law	12	3
LWB366	Law of Commercial Entities	8	2
LWB406	Fundamentals of Public International Law	8	2
LWB407	Conflict of Laws	12	3
LWB410	Restrictive Trade Practices	8	2

⁴ A student is required to complete 48 credit points of elective units and must normally enrol for at least 8 credit points of elective units per semester. A student may undertake as electives units or courses offered by other Faculties but limitations are imposed on the number of introductory units or courses which may be undertaken. Before undertaking such units or courses, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty will require a student to demonstrate that the units selected form a coherent program.

LWB412	Research and Writing Project ⁶	8	2
LWB452	Asian Legal Systems	8	2
LWB454	Banking & Finance Law	8	2
LWB455	Legal Clinic (Individual Planned Exercise)	8	2
LWB456	Legal Clinic (Organised Program)	12	3
LWB461	Private Law Remedies	8	2
LWB482	Computers & the Law	8	2
LWB483	Medico-Legal Issues	8	2
LWB485	Environmental Law	8	2
LWB486	Intellectual Property Law	8	2
LWB487	Maritime Law	8	2
LWB492	Securities	12	3

Note: The law elective unit offerings are accurate at time of publication. The offering of elective units in any semester is dependent on sufficient minimum enrolments in the unit and availability of staff. Any amendments to unit offerings will be posted on Faculty noticeboards prior to the commencement of Semester 1, 1995.

The law elective units will be offered to internal students as follows:

Semester 1

DAY CLASSES

LWB309 Succession
LWB364 Introduction to Taxation Law
LWB492 Securities
LWB485 Environmental Law
LWB486 Intellectual Property Law

EVENING CLASSES

LWB302 Family Law
LWB306 Local Government & Planning Law
LWB307 Insolvency Law
LWB308 Industrial Law
LWB312 Land Contracts
LWB361 Drafting
LWB366 Law of Commercial Entities
LWB406 Fundamentals of Public
International Law
LWB410 Restrictive Trade Practices
LWB452 Asian Legal Systems

Semester 2

DAY CLASSES

LWB302 Family Law
LWB312 Land Contracts
LWB351 Aboriginal and Islander Legal Issues
LWB353 Advanced Administrative Law
LWB361 Drafting
LWB455 Legal Clinic (Individual Planned Exercise)
LWB456 Legal Clinic (Organised Program)
LWB461 Private Law Remedies
LWB487 Maritime Law

EVENING CLASSES

LWB309 Succession
LWB313 Discrimination/Equal
Opportunity Law
LWB354 Advanced Civil Procedure
LWB359 Advanced Taxation Law
LWB363 Insurance Law
LWB407 Conflict of Laws
LWB454 Banking and Finance Law
LWB485 Environmental Law
LWB482 Computers and the Law
LWB483 Medico-Legal Issues
LWB486 Intellectual Property Law
LWB492 Securities

⁶ The Research and Writing Project is a one semester unit offered to a student whenever the Dean of the Faculty is satisfied that sufficient academic staff with the requisite expertise are available within the Faculty to supervise and examine the Project, and that the student has the appropriate academic record and background to undertake the Project, and there are sufficient Law Library facilities available. Preference will be given to any student who, at the end of the seventh semester of the full-time course, or at the end of the tenth semester of the part-time course as the case may be, has obtained a grade point average in Law units equal to or greater than that required for the award of the LLB with Honours.

The Project is a paper, normally of 10,000-15,000 words. The paper must be submitted for examination not later than the last day of the teaching semester in which the Project is undertaken.

The Project is deemed to be a one semester unit with two hours of formal classes a week.

Law elective units will be offered to external students as follows:

Semester 1

LWB302 Family Law
LWB306 Local Government and Planning Law
LWB307 Insolvency Law
LWB308 Industrial Law
LWB312 Land Contracts
LWB361 Drafting
LWB364 Introduction to Taxation Law
LWB366 Law of Commercial Entities
LWB406 Fundamentals of Public
International Law
LWB452 Asian Legal Systems

Semester 2

LWB309 Succession
LWB354 Advanced Civil Procedure
LWB359 Advanced Taxation Law
LWB363 Insurance Law
LWB407 Conflict of Laws
LWB454 Banking and Finance Law
LWB492 Securities

SPECIAL LAW ELECTIVE UNIT

This one semester of law unit is offered internally whenever, in the opinion of the Dean of the Faculty, sufficient academic staff with the requisite expertise in an appropriate unit other than one of those specified above are available in the Faculty, and a sufficient number of students are enrolled in the unit.

The special law elective units offered so far are:

		Credit Points	Contact Hrs/Wk
LWB315	Jessup International Law Moot	8	2
LWB482	Computers and the Law	8	2
LWB483	Medico-Legal Issues	8	2

Non-Law Elective Units (for students enrolled in LW33)

Students may undertake up to 96 credit points of elective units offered by other Faculties. Students enrolled in a graduate course structure are limited to 48 credit points of non-elective units. Limitations are imposed on the number of introductory units which may be undertaken.

Before undertaking such units, a student must obtain the approval of the Faculty of Law and the faculty or school responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.

■ Bachelor of Arts (Justice Studies)/Bachelor of Laws (LW41)⁷

Location: Kelvin Grove campus and Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 552

Standard Credit Points/Full-Time Semester: 54

Course Coordinator: Associate Professor Simon Petrie

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws (LW33) entry.

Course Structure

In the first three years students study a combination of justice studies units and law units, with the fourth and fifth years being made up of law degree units only.

⁷ Offered subject to final approval.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics & the Justice System	12	3
JSB104	Communication for Justice Professionals	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3
Year 1, Semester 2			
JSB105	Personal & Interpersonal Relationships	12	3
JSB107	Introduction to Criminology	12	3
JSB108	Introduction to Professional Studies	12	3
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
JSB201	Principles of Criminal Law 1	12	3
JSB202	Contemporary Issues in Australian Society 2	12	3
LWB132/1	Contracts	12	3
Select one unit from the following:			
JSB210	Procedure & Practice	12	3
JSB211	Process Theory & Application	12	3
JSB214	Conflict Management: Alternative Dispute Resolution	12	3
JSB217	Criminal Justice Systems-Perspectives of Punishment	12	3
Year 2, Semester 2			
JSB203	Human Dynamics: The Justice System	12	3
JSB204	Principles of Criminal Law 2	12	3
LWB132/2	Contracts	12	3
Select one unit from the following:			
JSB212	Inter-professional Cooperation	12	3
JSB213	Protective Security Theory & Application	12	3
JSB216	Current Issues in Administrative Law & Justice	12	3
JSB218	Traditional Punishment Processes & Issues	12	3
Year 3, Semester 1			
JSB301	Law of Evidence & Investigation	12	3
JSB302	Ideology, Ethics & Justice	12	3
LWB133/1	Torts	12	3
Select one unit from the following:			
JSB310	Organised Crime	12	3
JSB313	Intelligence Research-Issues, Procedures & Practice	12	3
JSB314	Public Law 1: Human Rights	12	3
JSB317	Punishment Systems in Action	12	3
Year 3, Semester 2			
JSB303	Human Dynamics: The Justice Professions	12	3
JSB304	Criminology 2	12	3
LWB133/2	Torts	12	3
Select one unit from the following:			
JSB311	Protective Security Issues & Practice	12	3
JSB312	Applied Policing Research Project	12	3
JSB316	Public Law 2: Administrative Law	12	3
JSB318	Contemporary Issues & Trends in Modern Punishment Administrations	12	3
Year 4, Semester 1			
LWB232/1	Criminal Law and Procedure	12	3
LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity and Trusts	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB232/2	Criminal Law and Procedure	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity and Trusts	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective units	24	

Year 5, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research and Legal Reasoning	12	3
	Elective units	24	

■ Bachelor of Arts (Justice Studies) (JS31)**Location:** Kelvin Grove campus**Course Duration:** 3 years full-time, 6 years part-time, 4 years external**Total Credit Points:** 288**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Associate Professor Simon Petrie**Course Structure**

The course structure comprises the following:

- (i) eight Justice Studies core units (96 credit points)
 - (ii) Justice Studies Major (96 credit points)
 - (iii) Professional Minor (48 credit points) and either four elective units (48 credit points) or second Professional Minor (48 credit points)
- OR
- Secondary Major (72 credit points) and two elective units (24 credit points).

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics & the Justice System	12	3
JSB103	Introduction to the Legal System	12	3
JSB104	Communication for Justice Professionals	12	3
Year 1, Semester 2			
JSB105	Personal & Interpersonal Relationships	12	3
JSB107	Introduction to Criminology	12	3
JSB108	Introduction to Professional Studies	12	3
JSB109	Introduction to Criminal Law & Evidence	12	3
Year 2, Semester 1			
JSB201	Principles of Criminal Law 1	12	3
JSB202	Contemporary Issues in Australian Society 2	12	3
	Elective Unit	12	
Select one unit from the following:			
JSB210	Procedure & Practice	12	3
JSB211	Process Theory & Application	12	3

JSB214	Conflict Management: Alternative Dispute Resolution	12	3
JSB217	Criminal Justice Systems – Perspectives of Punishment	12	3

Year 2, Semester 2

JSB203	Human Dynamics: The Justice System	12	3
JSB204	Principles of Criminal Law 2	12	3
	Elective Unit	12	

Select one unit from the following:

JSB212	Inter-professional Cooperation	12	3
JSB213	Protective Security Theory & Application	12	3
JSB216	Current Issues in Administrative Law & Justice	12	3
JSB218	Traditional Punishment Processes & Issues	12	3

Year 3, Semester 1

JSB301	Law of Evidence & Investigation	12	3
JSB302	Ideology, Ethics & Justice	12	3
	Elective Unit	12	

Select one unit from the following:

JSB310	Organised Crime	12	3
JSB313	Intelligence Research – Issues, Procedures & Practice	12	3
JSB314	Public Law 1: Human Rights	12	3
JSB317	Punishment Systems in Action	12	3

Year 3, Semester 2

JSB303	Human Dynamics: The Justice Professions	12	3
JSB304	Criminology 2	12	3
	Elective Unit	12	

Select one unit from the following:

JSB311	Protective Security Issues & Practice	12	3
JSB312	Applied Policing Research Project	12	3
JSB316	Public Law 2: Administrative Law	12	3
JSB318	Contemporary Issues & Trends in Modern Punishment Administrations	12	3

Part-Time Course Structure

Year 1, Semester 1

JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics & the Justice System	12	3

Year 1, Semester 2

JSB105	Personal & Interpersonal Relationships	12	3
JSB107	Introduction to Criminology	12	3

Year 2, Semester 1

JSB103	Introduction to the Legal System	12	3
JSB104	Communication for Justice Professionals	12	3

Year 2, Semester 2

JSB108	Introduction to Professional Studies	12	3
JSB109	Introduction to Criminal Law & Evidence	12	3

Year 3, Semester 1

JSB201	Principles of Criminal Law 1	12	3
JSB202	Contemporary Issues in Australian Society 2	12	3

Year 3, Semester 2

JSB203	Human Dynamics: The Justice System	12	3
JSB204	Principles of Criminal Law 2	12	3

Year 4, Semester 1

	Elective Unit	12	
Select one unit from the following:			
JSB210	Procedure & Practice	12	3
JSB211	Process Theory & Application	12	3

JSB214	Conflict Management: Alternative Dispute Resolution	12	3
JSB217	Criminal Justice Systems – Perspectives of Punishment	12	3

Year 4, Semester 2

Elective Unit	12	
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Select one unit from the following:

JSB212	Inter-professional Cooperation	12	3
JSB213	Protective Security Theory & Application	12	3
JSB216	Current Issues in Administrative Law & Justice	12	3
JSB218	Traditional Punishment Processes & Issues	12	3

Year 5, Semester 1

JSB301	Law of Evidence & Investigation	12	3
JSB302	Ideology, Ethics & Justice	12	3

Year 5, Semester 2

JSB303	Human Dynamics: The Justice Professions	12	3
JSB304	Criminology 2	12	3

Year 6, Semester 1

Elective Unit	12	
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Select one unit from the following:

JSB310	Organised Crime	12	3
JSB313	Intelligence Research – Issues, Procedures and Practice	12	3
JSB314	Public Law 1: Human Rights	12	3
JSB317	Punishment Systems in Action	12	3

Year 6, Semester 2

Elective Unit	12	
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Select one unit from the following:

JSB311	Protective Security – Issues and Practice	12	3
JSB312	Applied Policing Research Project	12	3
JSB316	Public Law 2: Administrative Law	12	3
JSB318	Contemporary Issues & Trends in Modern Punishment Administrations	12	3

Elective Units

Semester 1

JSB220	Intelligence Activity: Law, Morality & the Media	12	3
JSB230	Protective Security in Automated Systems	12	3

Semester 2

JSB221	Intelligence & National Security	12	3
JSB222	Management of Protective Security	12	3
JSB223	Intelligence, Organisations, Personnel & Operations	12	3

Elective units can be taken from other units offered within Justice Studies or the University, however, some limitations are imposed on the number of introductory level electives that can be undertaken. Elective units are subject to approval by the Course Coordinator.

External Course Structure

To be eligible for admission to the external course, applicants must provide evidence of previous tertiary study or professional experience which is the equivalent of 96 credit points or one year's full-time study of the degree program.

Year 1, Semester 1

JSB201	Principles of Criminal Law 1	12	3
JSB202	Contemporary Issues in Australian Society 2	12	3

Year 1, Semester 2

JSB203	Human Dynamics: The Justice System	12	3
JSB204	Principles of Criminal Law 2	12	3

Year 2, Semester 1

JSB301	Law of Evidence and Investigation	12	3
JSB302	Ideology, Ethics and Justice	12	3

Year 2, Semester 2

JSB303	Human Dynamics: The Justice Professions	12	3
JSB304	Criminology 2	12	3

■ Bachelor of Arts (Justice Studies) (In-service) (JS33)

Location: Kelvin Grove campus

Course Duration: 3 years full-time, 6 years part-time, 4 years external

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Simon Petrie

Course Structure

The structure of the course is identical to that of years three to six of the part-time course structure of the Bachelor of Arts (Justice Studies) (JS31).

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FACULTY OF SCIENCE

Policies

■ Policy on credit transfer relating to Bachelor-level courses in the Faculty of Science

FROM INCOMPLETE BACHELOR-LEVEL SCIENCE COURSES

Students transferring to a bachelor's degree course offered by the Faculty of Science at QUT from a comparable, partially completed course in a recognised institution may be granted credit towards the QUT award. In general, credit will be granted pro rata; for example, 96 credit points of credit normally will be granted for each year of full-time study (or its equivalent) successfully completed at the other institution. The maximum credit which may be granted is 192 credit points.

Each application for credit towards a Faculty of Science award will be considered individually, on its merits. Students who have successfully completed a year or more of full-time study (or its equivalent) at another institution nevertheless may be required to undertake specific first-level units at QUT. Also, to satisfy the relevant QUT degree rules, some students may have to gain credit totalling more than 288 credit points.

FROM COMPLETED ASSOCIATE DIPLOMA COURSES

Students entering a bachelor's degree course offered by the Faculty of Science at QUT following successful completion of a relevant Associate Diploma course from a recognised institution may be granted credit towards the QUT award. The maximum credit which may be granted is 96 credit points.

Unless the Dean determines otherwise, the credit will be granted as provisional credit. To have the credit confirmed, the student undertakes in the QUT course a program of study of at least 48 credit points and attains a grade point average of not less than 4.0. If, at the conclusion of such a course of study, the student's grade point average is less than 4.0, the Dean shall determine both the extent to which credit granted conditionally may be retained and the student's subsequent program of study in the course.

■ Policy on submission of project reports for assessment

The Science Academic Board has approved the following rules with regard to the completion of project units in all undergraduate and postgraduate courses (including honours projects):

- (i) A student enrolled in a project unit is required to submit the associated project report, dissertation or thesis for assessment by no later than the final day of the examination period for the semester in which the student's enrolment in that unit will terminate.
- (ii) In special circumstances and on the written recommendation of the student's supervisor, the Dean may grant an extension of time to complete the work associated with the project. The final date for submission of the report after such an extension shall be the last day of the deferred examination period for the semester in which the student's enrolment in that unit would terminate. In such cases, an 'A' result shall be given initially to the student in respect of this unit.
- (iii) The Academic Board may grant a further extension of time to complete the work associated with a project, on condition that the student re-enrols in the project unit for the succeeding semester. Failure to re-enrol in the project unit by the last day of

the deferred examination period for the semester in which, otherwise, the student's enrolment in that unit would terminate, will result in a grade of 2 or 1 being awarded in that unit.

Subsequent to the assessment process, the relevant school shall have discretion as to whether a candidate needs to re-enrol to effect any amendments required, or whether such amendments are essentially editorial. However, a student who is required to undertake further investigative work relating to his or her project must continue to be enrolled in the relevant project unit.

Students seeking extensions are advised that late submission of a project report for assessment as indicated in (ii) above may prevent publication of the associated result in time for the student to be included on the graduation list for that semester. Thus, course completion and graduate status from the relevant course may be delayed. This could disadvantage students seeking employment or promotion on the basis of the qualification in question.

■ Policy and procedures concerning exemption from practical work

Exemptions from practical work will not normally be granted by Schools in the Faculty. However, where a student wishes to be exempt on the grounds of some extenuating circumstances from the practical component of a unit attempted previously, they must write to the Head of School controlling the unit (or Dean of Faculty in the case of Faculty units), stating the following:

- (i) the year in which the unit was previously attempted
- (ii) the total mark/grade obtained for the practical component for the semester, and the maximum possible mark/grade, where known, and
- (iii) the circumstances on which the students are basing their application.

Any documentation relevant to these circumstances must be provided with the application.

Students, if required, must submit practical reports, notebooks, field notes, etc from their previous attempt at the unit. No exemption will be given for practicals where the unit has been attempted more than two years prior to the current enrolment. Students seeking exemption from practical work must do so within two weeks of the commencement of the semester in which the unit is taken.

Heads of School will:

- (i) consult with relevant course/strand coordinators and unit lecturers with regard to the application
- (ii) respond to the application in writing, and
- (iii) forward a copy of their response to the course/strand coordinator and unit lecturer.

Heads of School will determine individual School policies on exemptions and these may be obtained from the School offices.

Course Structures

■ Master of Applied Science (SC80)

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Course Coordinator: Dr Don Field

Entry Requirement: Bachelor of Applied Science

The objectives of this course are:

- ☐ to provide postgraduate educational opportunities in specialised fields of applied science by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge
- ☐ to provide education in research methods
- ☐ to enable graduates employed in industry to undertake a higher degree qualification by a combination of coursework, research, and thesis
- ☐ to expand the involvement of students employed in industrial organisations and external agencies in undertaking relatively short duration applied research or investigation.

This degree consists of two stages:

- ☐ Stage One comprises a program of assessed coursework. (Honours graduates may be exempt from Stage One.)

On successful completion of Stage One, students with a GPA of less than 5.0 will be awarded a Graduate Diploma in Applied Science while students with a GPA of 5.0 or greater are permitted to continue to Stage Two.

- ☐ In Stage Two, students are required to undertake a program of supervised research and investigation at a level of scientific competence significantly higher than that expected of a first degree graduate. Students can undertake an approved project in any area of interest supported by a research centre, research concentration or School within the Faculty of Science.

Rules and Conditions

For rules and conditions, refer to the course entry for Master of Applied Science (SC80) in the University-wide and Interfaculty Courses section of this Handbook.

Course Structure

STAGE 1

The unit IFN001 Advanced Information Retrieval Skills (4 credit points) is common to all strands.

The Stage 1 units for individual strands are as follows. Where the total number of credit points shown for a discipline is not 96, students will make further selections up to 96 credit points from other School units in honours, other masters or advanced undergraduate courses, as approved by the Course Coordinator.

		Credit Points
CHEMISTRY STRAND		
CHN701	Topics in Advanced Chemistry 1	12
CHN704	Research Techniques	44
CHN801	Topics in Advanced Chemistry 2	12
	Elective Unit	
	Elective Unit	

Elective Units

CHN710	Chemical Instrumentation	12
CHN720	Chemometrics	12
CHN730	Advanced Physical Methods in Chemistry	12
CHN740	Laboratory Techniques for Preparative Chemistry	12
	Any other approved unit.	

GEOLOGY STRAND

Selections from the following, depending on background and research area:

ESN110	Advanced Topics in Earth Science 1	12
ESN120	Advanced Topics in Earth Science 2	12
ESN130	Computer Applications in Earth Science	12
ESN140	Research Methodology 1	12
ESN150	Research Methodology 2	12
ESN160	Seminars	12
ESN170	Literature Survey	12
	Credit Points selected from other programs	8

LIFE SCIENCE STRAND

LSN011	Research Seminars in Life Science 1	6
LSN013	Readings in Life Science 3	24
LSN023	Research Seminars in Life Science 3	12
	Credit Points selected from other programs	50

MATHEMATICS STRAND

MAN001	Reading Course 1	8
MAN002	Reading Course 2	12
	Credit Points selected from other programs	72

PHYSICS STRAND

PHN715	Advanced Topics in Physics 1	8
PHN716	Advanced Topics in Physics 2	12
	Credit Points selected from other programs	72

STAGE 2

At least 96 credit points of research

- **Master of Applied Science (Medical Physics)**
- **Master of Applied Science (Medical Ultrasound)**
- **Master of Applied Science (Medical Imaging)**
- **Master of Applied Science (Radiation Therapy) (PH80)**

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time (plus Summer School, except for Medical Physics students)

Total Credit Points: 192 – Medical Physics; 204 – Medical Ultrasound, Medical Imaging, Radiation Therapy

Standard Credit Points/Full-Time Semester: 48

Coordinators:

Medical Physics Major: Dr Tim van Doorn

Medical Ultrasound Major: Ms Margo Harkness

Medical Imaging Major: Mr Brian Starkoff

Radiation Therapy Major: Associate Professor Brian Thomas

Entry Requirements

This program commences in February each year. Applications are to be made prior to 8 November in the preceding year.

MEDICAL PHYSICS MAJOR

To be eligible to enrol for the Medical Physics Major, an applicant must have completed an acceptable tertiary course with a major in Physics.

Applicants with other qualifications (eg Engineering) may be enrolled subject to the approval of the Head, School of Physics. In some instances, a bridging program may be necessary.

MEDICAL ULTRASOUND, MEDICAL IMAGING, AND RADIATION THERAPY MAJORS

To be eligible to enrol in the Medical Ultrasound or Medical Imaging Major, an applicant will normally be qualified as a diagnostic radiographer (or medical imaging technologist) at degree or diploma level and have had a minimum of two years experience in clinical medical imaging practice. To be eligible to enrol in the Radiation Therapy Major, an applicant will normally be qualified as a Radiation Therapist at degree or diploma level and have had a minimum of two years experience in clinical practice.

Applicants with other qualifications (eg in paramedical or physical sciences), and appropriate experience, may be permitted to enrol subject to the approval of the Head of the School of Physics. In some instances, a bridging program may be necessary.

Applicants must also demonstrate, in writing, that access to suitable clinical experience will be available for the duration of the course.

Course Requirements**MEDICAL PHYSICS MAJOR**

To complete Stage 1, students must complete units from the list below, totalling 96 credit points. Units available to students in the Medical Physics Major are indicated by C and MP.

In Semester 2, students may select either PHN213 Biomechanics/Physiological Measurement or PHN214 Health and Occupational Physics for a total of 48 credit points (FT).

MEDICAL ULTRASOUND MAJOR

To complete Stage 1, students must complete units from the list below, totalling 108 credit points. Units available to students in the Medical Ultrasound Major are indicated by C, C+ and MU.

MEDICAL IMAGING MAJOR

To complete Stage 1, students must complete units from the list below, totalling 108 credit points. Units available to students in the Medical Imaging Major are indicated by C, C+ and MI.

RADIATION THERAPY MAJOR

To complete Stage 1, students must complete units from the list below, totalling 108 credit points. Units available to students in the Radiation Therapy Major are indicated by C, C+ and RT.

On successful completion of Stage 1:

- (i) students with GPA less than 5.0 will normally graduate with a GradDipAppSc; (however, the Head of School may grant permission for such students to continue to Stage 2)
- (ii) students with GPA of 5.0 or greater will be permitted to:
 - (a) graduate as above, or
 - (b) continue with Stage 2 (which is a further one-year full-time or equivalent) involving a project leading to the award MAppSc.

Stage 1		Credit Points	Contact Hrs/Wk
First Semester			
LSB142	Human Anatomy & Physiology (MP)	12	5
LSN159	Advanced Pathology (C+)	12	4
PHN112	Medical Imaging Science (MP)	12	4
PHN113	Radiation Physics (MP/MI)	12	4
PHN114	Microprocessors & Instrumentation (MP)	12	4
PHN155	Ultrasonic Examination in Obstetrics/Gynaecology (MU)	6	2
PHN156	Ultrasonic Examination of the Abdomen (MU)	6	2
PHN162	Principles of Medical Ultrasound (MU)	12	4
PHN171	Advanced Oncological Imaging (RT)	12	4
PHN173	Advanced Radiotherapy Technique (RT)	12	4
PHN181	Principles of Medical Image Processing (MI/RT)	6	2
PHN182	Computer Tomography (MI)	6	2
PHN183	Nuclear Medicine (MI) ¹	12	4
PHN184	Breast Imaging (MI) ¹	12	4
PHN197	Clinical Attachment 1 (C+)	12	
Second Semester			
PHN211	Medical Imaging (MP)	12	4
PHN212	Radiotherapy (MP)	12	4
PHN213	Biomechanics/Physiological Measurement (MP)	12	4
PHN214	Health & Occupational Physics (MP)	12	4
PHN216	Medical & Health Technology Management (C)	6	2
PHN217	Research Methodology (C)	6	2
PHN271	Principles of Oncology (RT)	12	4
PHN272	Brachytherapy (RT)	6	2
PHN273	Advanced Computer Planning (RT)	6	2
PHN281	Magnetic Resonance Imaging (MI)	12	4
PHN282	Digital Subtraction Angiography (MI)	6	2
PHN291	Medical Diagnosis (C+)	6	2
PHN297	Clinical Attachment 2 (C+)	12	
PHN354	Ultrasonic Examinations of the Head, Neck & Peripheral Organs (MU)	6	2
PHN355	Cardiovascular Ultrasound (MU)	12	4
Summer Term			
PHN397	Clinical Attachment 3 (C+)	12	

The units PHN216 Medical and Health Technology Management and PHN217 Research Methodology are compulsory for students in all majors. Units LSN159 Advanced Pathology, PHN291 Medical Diagnosis, PHN197 Clinical Attachment 1, PHN297 Clinical Attachment 2, and PHN397 Clinical Attachment 3 are compulsory for students in the Medical Ultrasound, Medical Imaging and Radiation Therapy Majors. Each clinical attachment unit involves a minimum of 240 hours of clinical experience. Students must successfully complete these units in the order PHN197, PHN297 and PHN397 unless special permission is granted.

¹ Full year subject, continues semester 2.

Stage 2**Project over 2 semesters**

PHN520/1/2

Credit Points

96

Project over 4 semesters

PHN540/1/2/3/4

96

Note: A student may request an extension of time in which to submit the project report for assessment. A request for an extension of time up to a maximum of six months shall be made in writing through the Head of School to the Dean. Any request for a further extension, or any request for an extension to a date later than six months after the original due date, shall be made in writing to the Academic Board. The Academic Board may grant the extension under such conditions as it may consider appropriate, or may award the student a 'Fail' result in the project unit.

A student who has received a 'Fail' result in the project unit may re-enrol in the unit only in exceptional circumstances and with the express permission of the Academic Board.

■ Master of Applied Science (Life Science) (LS80)

Location: Gardens Point campus

Course Duration: 1 1/2 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr David Allen

Entry Requirements

Applicants shall hold a Bachelor of Applied Science with a GPA of 5.0 (on a 7 point scale) or better in the appropriate discipline for which they are seeking admission.

Applicants may be required to attend an interview with the Head of School and/or Course Coordinator to establish suitability for entrance into the course.

Graduates of the Graduate Diploma in Biotechnology (LS70) with a GPA of 5.0 or better (on a 7 point scale) will be eligible for entry into the course with a credit for 96 credit points.

Applicants who do not hold the specific tertiary qualification required of normal entrants may be admitted upon successful completion of a qualifying program prescribed by the Head of School.

Special Course Requirements

Students should consult the Course Coordinator regarding their programs.

Students must select two disciplinary specialisation elective units.

For part-time students, the project (dissertation) is normally carried out in the employer's laboratory. The employer's written permission is required.

Note: This course commences in mid-year.

Full-Time Course Structure**Year 1, Semester 2**

		Credit Points	Contact Hrs/Wk
LSB637	Molecular Genetics	12	5
LSN102	Cellular Basis of Disease	12	3
LSN110	Molecular Basis of Disease	12	3

Specialist Elective, select one from the following:

LSN510	Clinical Biochemistry 1	12	3
LSN511	Haematology 1	12	3
LSN512	Histopathology 1	12	3
LSN515	Microbiology 1	12	3
LSN517	Immunology 1	12	3
LSN518	Diagnostic Cytology 1	12	3

Year 2, Semester 1

HRN104	Introduction to Management	12	3
LSN150	Ethics and Life Science	12	3
LSP735	Human Molecular Biology	12	5

Specialist Elective, select one from the following:

LSN610	Clinical Biochemistry 2	12	3
LSN611	Haematology 2	12	3
LSN612	Histopathology 2	12	3
LSN615	Microbiology 2	12	3
LSN617	Immunology 2	12	3
LSN618	Diagnostic Cytology 2	12	3

Year 2, Semester 2

LSN710	Project	48	
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Part-Time Course Structure

Year 1, Semester 2

LSN102	Cellular Basis of Disease	12	3
LSN110	Molecular Basis of Disease	12	3

Year 2, Semester 1

HRN104	Introduction to Management	12	3
LSN150	Ethics and Life Science	12	3

Year 2, Semester 2

LSB637	Molecular Genetics	12	5
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Specialist Elective, select one from the following:

LSN510	Clinical Biochemistry 1	12	3
LSN511	Haematology 1	12	3
LSN512	Histopathology 1	12	3
LSN515	Microbiology 1	12	3
LSN517	Immunology 1	12	3
LSN518	Diagnostic Cytology 1	12	3

Year 3, Semester 1

LSP735	Human Molecular Biology	12	5
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Specialist Elective, select one from the following:

LSN610	Clinical Biochemistry 2	12	3
LSN611	Haematology 2	12	3
LSN612	Histopathology 2	12	3
LSN615	Microbiology 2	12	3
LSN617	Immunology 2	12	3
LSN618	Diagnostic Cytology 2	12	3

Year 3, Semester 2

LSN711	Project 1	24	
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Year 4, Semester 1

LSN712	Project 2	24	
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■ Master of Applied Science (Medical Laboratory Science) (LS85)

Course discontinued: To be replaced by Master of Applied Science (Life Science) (LS80).

Location: Gardens Point campus

Course Duration: 3 years part-time

Total Credit Points: 144

Standard Credit Points/Part-time Semester: 24

Course Coordinator: Dr David Allen

Entry Requirements

NORMAL ENTRY

Applicants shall hold a Bachelor of Applied Science (or equivalent) in the appropriate discipline for which they are seeking admission and shall normally have had at least one year of appropriate work experience in the discipline for which they are seeking admission.

Applicants may be required to attend an interview with the Head of School and/or Course Coordinator to establish suitability for entrance into the course.

SPECIAL ENTRY

Applicants who do not hold the specific tertiary qualification required of normal entrants may be admitted upon successful completion of a qualifying program prescribed by the Head of School.

Special course Requirements

Students should consult the Course Coordinator regarding their programs.

Students must select two disciplinary specialisation elective units in Year 3, Semesters 1 and 2.

The project (dissertation) is carried out in the laboratory. The employer's written permission is required.

Part-time Course Structure

	Credit Points	Contact Hrs/Wk
Year 3, Semester 1		
LSN530 Dissertation 1	12	3
Select one of the following units:		
LSN510 Clinical Biochemistry 1	12	3
LSN511 Haematology 1	12	3
LSN512 Histopathology 1	12	3
LSN515 Microbiology 1	12	3
LSN517 Immunology 1	12	3
LSN518 Diagnostic Cytology 1	12	3
Year 3, Semester 2		
LSN531 Dissertation 2	12	3
Select one of the following units:		
LSN610 Clinical Biochemistry 2	12	3
LSN611 Haematology 2	12	3
LSN612 Histopathology 2	12	3
LSN615 Microbiology 2	12	3
LSN617 Immunology 2	12	3
LSN618 Diagnostic Cytology 2	12	3

■ Graduate Diploma in Applied Science (SC71)

No enrolments are accepted directly into this course. For details see Course Rules for Master of Applied Science (SC80) entry in the section Interfaculty Courses (paragraph 4.2).

■ Graduate Diploma in Applied Science (Medical Physics)
Graduate Diploma in Applied Science (Medical Ultrasound)
Graduate Diploma in Applied Science (Medical Imaging)
Graduate Diploma in Applied Science (Radiation Therapy)
(PH71)

No enrolments are accepted directly into this course. For details see the section Course Requirements for Master of Applied Science (Medical Physics), Master of Applied Science (Medical Ultrasound), Master of Applied Science (Medical Imaging), and Master of Applied Science (Radiation Therapy) (PH80).

■ Graduate Diploma in Biotechnology (LS70)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Dr Peter Timms

Entry Requirements

NORMAL ENTRY

To be eligible for entry to the Graduate Diploma in Biotechnology, an applicant must have completed an appropriate degree in a relevant science area. Some background in biochemistry is essential.

SPECIAL ENTRY

Applicants who do not hold the tertiary qualifications required for normal entry may be eligible for admission if they have completed a diploma or degree in another appropriate non-science area as determined by the Head of School, and are employed in the biotechnology area.

Note: This course commences in mid-year.

Full-Time Course Structure (Commencing students)		Credit Points	Contact Hrs/Wk
Year 1, Semester 2			
LSB637	Molecular Genetics	12	5
Select three from the following:			
CHP220	Principles of Bioprocessing	12	5
LSB607	Biochemical Separations	12	5
LSB617	Plant Tissue Culture 2	12	5
LSN102	Cellular Basis of Disease	12	3
LSN110	Molecular Basis of Disease	12	3
Year 1, Semester 1			
LSP127	Business Aspects of Biotechnology	12	3
Select three from the following:			
CHP420	Bioprocess Engineering Laboratory	12	5
HRN104	Introduction to Management	12	3
LSB517	Plant Tissue Culture 1	12	5
LSN150	Ethics & Life Science	12	5
LSP735	Human Molecular Biology	12	5
LSP737	Plant & Animal Molecular Biology	12	5

Part-time Course Structure (Commencing students)**Year 1, Semester 2**

LSB607	Biochemical Separations	12	5
LSB637	Molecular Genetics	12	5

Year 1, Semester 1

LSP127	Business Aspects of Biotechnology	12	3
LSP735	Human Molecular Biology	12	5

Year 2, Semester 2

Select two from the following:

CHP220	Principles of Bioprocessing	12	5
LSB617	Plant Tissue Culture 2	12	5
LSN102	Cellular Basis of Disease	12	3
LSN110	Molecular Basis of Disease	12	3

Year 2, Semester 1

Select three from the following:

CHP420	Bioprocess Engineering Laboratory	12	5
HRN104	Introduction to Management	12	3
LSB517	Plant Tissue Culture 1	12	5
LSN150	Ethics & Life Science	12	3
LSP737	Plant & Animal Molecular Biology	12	5

Part-Time Course Structure (Continuing students)**Year 2, Semester 1**

CHP320	Downstream Processing	12	5
LSB537	Genetic Engineering	12	5

Year 2, Semester 2

LSB637	Molecular Genetics	12	5
LSP127	Business Aspects of Biotechnology	12	5

Year 3, Semester 1

LSP735	Human Molecular Biology	12	5
LSP737	Plant & Animal Molecular Biology	12	5

■ Bachelor of Applied Science (Honours) (SC60)

With majors in: Chemistry, Geology, Life Science, Mathematics and Physics.

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Don Field

Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Applied Science (SC30 or MA34) or equivalent and should have attained a grade point average (GPA) of at least 5.0 over that degree, including grades of at least credit (5) in all units directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

Please note that for the Mathematics major, other degrees with major studies in Mathematics (including Statistics) may provide suitable entry to the program.

Course Structure

The honours program comprises of 96 credit points. The course structure depends on the major and may vary slightly from one student to another, depending on the program and particular units chosen.

The general course structure consists of a project (see below) and units or advanced topics chosen from the program of the selected major. The unit IFN001 Advanced Information Retrieval Skills may also be included.

Part-time candidates annually undertake approximately half of the full-time program. Classes are held at the same times as for full-time students and thus may involve some day release from employment.

Students should consult the coordinator concerning the availability of units and selection of units for their major.

Course Structure		Credit Points	Contact Hrs/Wk
CHEMISTRY MAJOR			
Semester 1			
CHB700/1	Research Project	22	
CHB701/1	Complementary Studies for Chemists	4	2
CHB780/1	Advanced Topics in Chemistry 1	12	6
IFN001	Advanced Information Retrieval Skills	4	2
	Elective Unit	6	
Semester 2			
CHB700/2	Research Project	26	
CHB701/2	Complementary Studies for Chemists	4	2
CHB780/2	Advanced Topics in Chemistry 1	12	6
	Elective Unit	6	
Elective units are chosen from a selection of Chemistry and other relevant disciplines.			
GEOLOGY MAJOR			
Semester 1			
ESB700/1	Project	24	
ESB701/1	Geology Reviews	6	3
ESB702/1	Complementary Studies	6	2
ESB704	Advanced Studies in Earth Science	20	
IFN001	Advanced Information Retrieval Skills	4	2
Semester 2			
ESB700/2	Project	24	
ESB701/2	Geology Reviews	6	3
ESB702/2	Complementary Studies	6	2
LIFE SCIENCE MAJOR			
Semester 1			
LSB723/1	Readings in Life Science 1	8	
LSB825/1	Project	24	
IFN001	Advanced Information Retrieval Skills	4	2
	Life Science Elective Unit	12	
Semester 2			
LSB722	Research Strategies	16	
LSB723/2	Readings in Life Science 1	8	
LSB825/2	Project	24	

Life Science Elective Units

LSB558	Applied Physiology	12	5
LSB734	Analytical Electron Microscopy	12	5
LSB801	Advanced Plant Physiology & Biochemistry	12	5
LSB802	Immunology 5	12	5
LSB804	Advanced Population Biology	12	5
LSP735	Human Molecular Biology	12	5
LSP737	Plant & Animal Molecular Biology	12	5

or another unit approved by the Head of School in consultation with the supervisor.

MATHEMATICS MAJOR**Semester 1**

MAB989/1	Project	18	
	Mathematics Elective Units (2 or 3)	24-36	

Semester 2

MAB989/2	Project	18	
	Mathematics Elective Units (3 or 2)	36-24	

Mathematics Elective Units

Five units are to be selected over the two semesters. (Not all units may be available.)

MAB906	Topics in Analysis	12	4
MAB912	Continuum Modelling	12	4
MAB913	Computational Mathematics 3B	12	4
MAB929	Time Series & Statistical Forecasting	12	4
MAB970	Probability Theory & Stochastic Processes	12	4
MAB971	Advanced Mathematics of Finance	12	4
MAB973	Partial Differential Equations	12	4
MAB974	Sampling & Survey Techniques	12	4
MAB975	Ordinary Differential Equations & Chaos	12	4
MAB976	Reliability & Survival Analysis	12	4
MAB977	Scheduling & Networks	12	4
MAB978	Statistical Signal Processing & Image Analysis	12	4
MAB979	Statistical Modelling & Data Analysis	12	4
MAB980	Stochastic Processes & Applications	12	4
MAB981	Applied Statistical Inference & Experimentation	12	4
MAB984	Actuarial Statistics	12	4
MAB985	Computational Mathematics 4	12	4
MAB986	Mathematical Modelling of Industrial Processes	12	4
MAB987	Optimisation of Controlled Processes	12	4
MAN012	Advanced Studies	12	4

PHYSICS MAJOR**Semester 1**

PHB705/1	Project	24	
	Physics Elective Unit	12	4
	Physics Elective Unit	12	4

Semester 2

PHB705/2	Project	24	
	Physics Elective Unit	12	4
	Physics Elective Unit	12	4

Physics Elective Units

PHB706	Quantum Mechanics	12	4
PHB707	Advanced Materials	12	4
PHB708	Advanced Topics in Physics	12	4
PHN112	Medical Imaging Science	12	4
PHN114	Microprocessors & Instrumentation	12	4
PHN212	Radiotherapy	12	4

■ Bachelor of Applied Science (SC30)

With majors in: Biology, Chemistry, Geology, Mathematics, Microbiology/ Biochemistry, and Physics

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Don Field

Course Rules

1. A student may enrol as either a full-time or a part-time student. A full-time student is one who is enrolled in 36 or more credit points per semester. A part-time student is one who is enrolled in less than 36 credit points in the semester.

2. All commencing students and certain continuing students are required to attend scheduled academic advising sessions to plan their progression through the course, and to obtain the approval of an academic adviser prior to effecting any change of enrolment.

3. Students are normally expected to complete the course in minimum time. A full-time student enrolls in an average of 48 credit points per semester for six semesters and a part-time student enrolls in an average of 24 credit points per semester for 12 semesters.

4. To fulfil the requirements for the award of the degree, a student must complete units totalling at least 288 credit points, comprising major and minor studies, and supporting units.

Major and minor studies are defined in terms of the discipline and the academic level at which units are offered:

- (i) A major must be completed in one of the following discipline areas – biology, biotechnology, chemistry, mathematics, geology, microbiology/biochemistry, or physics. Completion of a major consists of passing units totalling at least 120 credit points from the second and third schedules, including a minimum of 48 credit points at third level. The general requirements for each major are set out after the Course Rules.
- (ii) A minor may be completed in any approved discipline within the University. Completion of a minor consists of passing units totalling at least 48 credit points from the second and third levels, and including at least 24 credit points at third level.

Major and minor studies may be undertaken in the same or in closely related discipline areas.

5. A registered student who has successfully completed the equivalent of the first and second years of the standard full-time course, normally with a grade point average (GPA) of not less than 4.5 overall, may, at the discretion of the Cooperative Education Program Coordinator, undertake the Cooperative Education Program.

This involves 10-12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the unit SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

Notes on the Rules

- (i) First, second and third level units are defined, respectively, to be those listed in the first, second and third schedules to the course rules. In general, it is expected that a

second level unit will have one or more first level prerequisite units. Similarly, a third level unit is likely to have one or more second level prerequisite units. The unit schedules are shown in the Schedule of Units.

- (ii) Instead of the major and minor requirement described in Rule 3, students may, in special circumstances and with the written approval of the Dean, undertake two majors or a major and two minors.

General requirements for majors

The units and specifications listed are the minimum requirements for completion of a major in each discipline.

BIOLOGY

- First level: Animal and Plant Structure and Function
Cell and Molecular Biology
Chemistry 1 and 2
Introduction to Life Science
Statistics or Statistics 1A
- Second & third levels: 120 credit points of Biology units including 48 from the third level

BIOTECHNOLOGY

- First Level: Animal and Plant Structure and Function
Cell and Molecular Biology 1
Chemistry 1 and 2
Introduction to Life Science
Statistics or Statistics 1A
- Second & third levels: 120 credit points of Biotechnology units including 48 from the third level

CHEMISTRY

- First level: Chemistry 1 and 2
At least 36 credit points from other first level Science units OR
Computing OR
Introduction to Computing
- Second & third levels: 120 credit points of Chemistry units including 48 from the third level

GEOLOGY

- First level: Physical Geology
Historical Geology
At least 48 credit points from other first level Science units (to include at least 12 credit points from Maths, Physics or Chemistry) OR
Computing OR
Introduction to Computing
- Second & third levels: 120 credit points of Geology units including 48 from the third level

MATHEMATICS

- First level: Discrete Mathematics Algebra and Analysis B
Statistics or Statistics 1A OR Calculus and Analysis A
Mathematics 1 and 2 Calculus and Vector Algebra²
Statistics 1A
- Second & third levels: 120 credit points of Mathematics units including 48 from the third level

² This unit can be replaced by another first level mathematics unit with permission from the School of Mathematics.

MICROBIOLOGY/BIOCHEMISTRY

First level:	Animal and Plant Structure and Function Cell and Molecular Biology Chemistry 1 and 2 Introduction to Life Science Statistics or Statistics 1A
Second & third levels:	120 credit points of Microbiology/Biochemistry units including 48 from the third level

PHYSICS

First level:	Computing OR Introduction to Computing ³ Maths 1 and 2 Physics 1 and 2 Statistics ² or Statistics 1A ³
Second & third levels:	120 credit points of Physics units including 48 from the third level Mathematics 3 Mathematics 4

All students must take SCB001 Learning at University unless exemption has been granted.

Note: There is no evening program for part-time students. Part-time students will attend classes with full-time students and therefore will require day release from employment to attend most units. Many mathematics units are available by evening study.

Schedule of Units		Semester	Credit	Contact
First Schedule – First Level Units		Offered	Points	Hrs/Wk
CHB142	Chemistry 1	1	12	6
CHB182	Chemistry 1	1,2	12	6
CHB213	Concepts of Analytical Chemistry	2	12	5
CHB242	Chemistry 2	2	12	6
CHB282	Chemistry 2	1,2	12	6
CSB155	Introduction to Computing	1,2	12	4
CSB263	Computing	1,2	12	4
ESB122	Physical Geology	1	12	5
ESB222	Historical Geology	2	12	5
LSB118	Introduction to Life Science	1	12	6
LSB122	Biology 1	1	12	5
LSB150	Human Anatomy	1	12	5
LSB222	Biology 2	2	12	5
LSB228	Animal & Plant Structure & Function	2	12	5
LSB238	Cell and Molecular Biology 1	2	12	5
MAB102	Basic Mathematics	1	12	4
MAB212	Mathematics 1	1,2	12	4
MAB222	Mathematics 2	1,2	12	4
MAB232	Discrete Mathematics	1,2	12	4
MAB237	Statistics	1,2	12	4
MAB301	Calculus & Analysis A	1,2	12	4
MAB303	Algebra & Analysis B	1,2	12	4
MAB304	Calculus & Vector Algebra	1,2	12	4
MAB321	Computational Mathematics 1	1,2	12	4
MAB342	Mathematics of Finance	1,2	12	4
MAB347	Statistics 1A	1,2	12	4
MAB348	Statistics 1B	1,2	12	4
PHB122	Physics 1	1	12	5

² This unit can be replaced by another first level mathematics unit with permission from the School of Mathematics.

³ These units need not be taken in First Year.

PHB222	Physics 2	2	12	5
SCB001	Learning at University	1	2	1
SCB222	Exploration of the Universe	2	12	5

INTRODUCTORY UNITS

CHB001	Introductory Chemistry	1,2	6	3
LSB001	Introductory Biology	1	6	3
PHB001	Introductory Physics	1,2	6	3

OTHER UNITS

Students may take units from any discipline within the University. Some other units offered at first level are listed below:

PHB150	Physics 1H	1	12	6
PHB263	Physics 2E	2	12	6

Schedule of Units – Second Level Units

CHB313	Analytical Chemistry 3	1,2	12	5
CHB333	Inorganic Chemistry 3	1	12	5
CHB352	Organic Chemistry 3	1	12	5
CHB372	Physical Chemistry 3	1	12	5
CHB423	Chemical Technology 4	2	12	5
CHB453	Organic Chemistry 4	2	12	5
CHB473	Physical Chemistry 4	2	12	5
ESB312	Mineralogy	1	12	5
ESB332	Geophysics	1	12	5
ESB342	Structural Geology and Geomechanics	1	12	5
ESB392	Field Techniques and Studies	1	12	5
ESB432	Geomorphology and Sedimentary Geology	2	12	5
ESB452	Geochemistry	2	12	5
ESB462	Lithology	2	12	5
ESB472	Mineral Deposits & Mine Geology	2	12	5
LSB302	Animal Biology 1	1	12	5
LSB308	Biochemistry 3	1	12	5
LSB318	Biochemical Methodology 3	1	12	5
LSB322	Plant Biology	1	12	5
LSB328	Microbiology 3	1	12	5
LSB332	Plant Physiology 1	1	12	5
LSB352	Population Ecology	1	12	5
LSB358	Physiology 2S	1	12	5
LSB362	Quantitative Methods in Life Science	1	12	5
LSB402	Animal Biology 2	2	12	5
LSB408	Biochemistry 4	2	12	5
LSB412	Applied Ecology A	2	12	5
LSB418	Biochemical Methodology 4	2	12	5
LSB422	Applied Ecology B	2	12	5
LSB428	Microbiology 4	2	12	5
LSB432	Genetics	2	12	5
LSB438	Immunology 4	2	12	5
LSB442	Plant Tissue Culture 1	2	12	5
LSB452	Marine Studies	2	12	5
LSB458	Physiology 3S	2	12	5
LSB468	Molecular Biology	2	12	5
MAB422	Topics in Mathematics	2	12	4
MAB432	Mathematics 3	1	12	4
MAB452	Mathematics 4	2	12	4
MAB601	Multivariable Calculus	1	12	4
MAB612	Differential Equations	2	12	4
MAB618	Computational Mathematics 2	1,2	12	4
MAB620	Finite Mathematics	2	12	4
MAB630	Linear Algebra & its Applications	1	12	4
MAB632	Mathematical Modelling	2	12	4
MAB637	Operations Research 1A	1,2	12	4
MAB638	Operations Research 1B	2	12	4
MAB641	Actuarial Mathematics	1	12	4

MAB642	Methods of Mathematical Economics	2	12	4
MAB647	Statistics 2A	1	12	4
MAB648	Statistics 2B	2	12	4
PHB322	Physics 3A	1	12	5
PHB332	Physics 3B	1	12	5
PHB342	Physics 3C	1	12	5
PHB422	Physics 4A	2	12	5
PHB432	Physics 4B	2	12	5
PHB462	Experimental Physics 4	2	12	5

OTHER UNITS

Students may take units from any discipline within the University. Some other units offered at second level are listed below.

PUB353	Consumer Food	1	12	4
PUB405	Human Nutrition	2	12	5

Cooperative Education Program

A registered student who has completed the equivalent of the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the discretion of the Cooperative Education Program Coordinator, undertake the Cooperative Education option. This involves 10-12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the unit SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

Schedule of Units – Third Level Units

CHB513	Instrumental Analysis 5	1	12	5
CHB523	Chemical Technology 5	1	12	5
CHB533	Inorganic Chemistry 5	1	12	5
CHB553	Organic Chemistry 5	1	12	5
CHB573	Physical Chemistry 5	1	12	5
CHB603	Project	2	12	5
CHB613	Instrumental Analysis 6	2	12	5
CHB623	Chemical Technology 6	2	12	5
CHB643	Applied Spectroscopy	2	12	5
CHB663	Environmental Chemistry	2	12	5
CHB693	Materials Chemistry	2	12	5
ESB512	Igneous & Metamorphic Petrology	1	12	5
ESB522	Hydrogeology	1	12	5
ESB542	Engineering & Environmental Geology	1	12	5
ESB582	Ore Genesis	1	12	5
ESB592	Geological Field Excursions	Y ⁴	12	
ESB602	Geological Investigations	2	12	5
ESB652	Exploration Geoscience	2	12	5
ESB672	Fossil Fuel Geology	2	12	5
ESB682	Sedimentology & Basin Analysis	2	12	5
LSB502	Projects 1	1	12	5
LSB508	Biochemistry 5	1	12	5
LSB522	Population Management	1	12	5
LSB528	Microbial Physiology & Metabolism	1	12	5
LSB532	Population Genetics	1	12	3
LSB537	Genetic Engineering	1	12	5
LSB542	Plant Tissue Culture 2	1	12	5
LSB548	Biochemical Separations	2	12	5
LSB552	Aquaculture 1	1	12	5
LSB558	Applied Physiology	1	12	5
LSB568	Electron Microscopy	2	12	5
LSB578	Virology	1	12	5
LSB582	Selected Topics 1	1	12	5

⁴ Year long unit.

LSB592	Field Studies 2	1	12	5
LSB602	Projects 2	2	12	5
LSB608	Biochemistry 6	2	12	5
LSB612	Aquaculture 2	2	12	5
LSB618	Analytical Biochemistry 6	1	12	5
LSB622	Case Studies	2	12	5
LSB628	Applied Microbiology	2	12	5
LSB632	Plant Physiology 2	2	12	5
LSB637	Molecular Genetics	2	12	5
LSB648	Microbial Technology	2	12	5
LSB652	Biological Resources	2	12	5
LSB658	Clinical Physiology	2	12	5
LSB682	Selected Topics 2	2	12	5
MAB906	Topics in Analysis	1	12	4
MAB907	Statistics 3A	1	12	4
MAB908	Statistics 3B	2	12	4
MAB911	Computational Mathematics 3A	1	12	4
MAB912	Continuum Modelling	1	12	4
MAB913	Computational Mathematics 3B	2	12	4
MAB927	Operations Research 2A	1	12	4
MAB928	Operations Research 2B	2	12	4
MAB929	Time Series & Statistical Forecasting	2	12	4
MAB933	Mathematical Biology	1	12	4
MAB941	Mathematical Modelling in Economics	1	12	4
MAB942	Optimisation Methods	1	12	4
MAB960	Project Work	1,2	12	4
MAB970	Probability Theory & Stochastic Processes	1	12	4
MAB971	Advanced Mathematics of Finance	2	12	4
MAB973	Partial Differential Equations	2	12	4
MAB974	Sampling & Survey Techniques	2	12	4
PHB512	Project	1,2	12	5
PHB522	Applied Quantum Mechanics	1	12	5
PHB532	Electromagnetic Field Theory	1	12	5
PHB562	Physical Methods of Analysis	1	12	5
PHB622	Solid State Physics	2	12	5
PHB632	Nuclear & Particle Physics	2	12	5
PHB642	Applied Radiation & Health Physics	2	12	5
PHB662	Topics in Physics	1	12	5
SCB510	Introduction to Quality Management	1	12	4

OTHER UNITS

Students may take units from any discipline within the University. One other unit offered at third level is:

PUB631	Nutritional Biochemistry	2	12	5
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■ Bachelor of Applied Science (Applied Chemistry) (CH32)

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288 (minimum)

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Eric O'Reilly

Full-Time Course Structure

Credit Points	Contact Hrs/Wk
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Note: It is strongly recommended that students also undertake the unit SCB001 Learning at University in their first semester.

Year 1, Semester 1

CHB173	Chemistry 1A	12	6
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CHB183	Chemistry 1B	12	6
MAB212	Mathematics 1	12	4
PHB122	Physics 1	12	5

Year 1, Semester 2

CHB213	Concepts of Analytical Chemistry	12	5
CHB283	Chemistry 2A	12	5
CHB253	Chemistry 2B	12	5
MAB237	Statistics	12	4

Year 2, Semester 1

CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
CHB353	Organic Chemistry 3A	12	5
CHB373	Physical Chemistry 3A	12	5

Year 2, Semester 2

CHB423	Chemical Technology 4	12	5
CHB453	Organic Chemistry 4	12	5
CHB473	Physical Chemistry 4	12	5
CSB263	Computing	12	4

Year 3, Semester 1

CHB513	Instrumental Analysis 5	12	5
CHB523	Chemical Technology 5	12	5
Two of:			
CHB533	Inorganic Chemistry 5	12	5
CHB553	Organic Chemistry 5	12	5
CHB573	Physical Chemistry 5	12	5
	Elective Unit	12	

Year 3, Semester 2

CHB613	Instrumental Analysis 6	12	5
CHB623	Chemical Technology 6	12	5
CHB693	Materials Chemistry	12	5
One of:			
CHB603	Project	12	5
CHB643	Applied Spectroscopy	12	5
CHB653	Applied Biological Chemistry	12	5
CHB663	Environmental Chemistry	12	5
	Elective Unit	12	

Cooperative Education Program

A registered student who has completed the equivalent of the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the discretion of the Cooperative Education Program Coordinator, undertake the Cooperative Education option.

This involves 10 – 12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the unit SCB100 Cooperative Education. On completion of the approved industrial experience the student resumes formal studies.

Part-Time Course Structure

Credit Points	Contact Hrs/Wk
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Note: It is strongly recommended that students also undertake the unit SCB001 Learning at University in their first semester.

Year 1, Semester 1

CHB173	Chemistry 1A	12	6
PHB122	Physics 1	12	5

Year 1, Semester 2

CHB183	Chemistry 1B	12	6
MAB212	Mathematics 1	12	4

Year 2, Semester 1

CHB283	Chemistry 2A	12	5
MAB237	Statistics	12	4

Year 2, Semester 2

CHB213	Concepts of Analytical Chemistry	12	5
CHB253	Chemistry 2B	12	5

Year 3, Semester 1

CHB353	Organic Chemistry 3A	12	5
CHB373	Physical Chemistry 3A	12	5

Year 3, Semester 2

CHB453	Organic Chemistry 4	12	5
CHB473	Physical Chemistry 4	12	5

Year 4, Semester 1

CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5

Year 4, Semester 2

CHB423	Chemical Technology 4	12	5
CSB263	Computing	12	4

Year 5, Semester 1

CHB513	Instrumental Analysis 5	12	5
CHB523	Chemical Technology 5	12	5

Year 5, Semester 2

CHB613	Instrumental Analysis 6	12	5
CHB623	Chemical Technology 6	12	5

Year 6, Semester 1

Two of:			
CHB533	Inorganic Chemistry 5	12	5
CHB553	Organic Chemistry 5	12	5
CHB573	Physical Chemistry 5	12	5
	Elective Unit	12	

Year 6, Semester 2

CHB693	Materials Chemistry	12	5
One of:			
CHB603	Project	12	5
CHB653	Applied Biological Chemistry	12	5
CHB663	Environmental Chemistry	12	5
	Elective Unit	12	

Note: It is not intended that all Chemistry elective units will be offered. Those units offered in any one year will be determined by student demand.

■ Bachelor of Applied Science (Mathematics) (MA34)

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Clif Bothwell

Course Requirements

A student selects units from the list given below, having regard to specified prerequisites and co-requisites, and must complete:

- (i) all units from List A
- (ii) at least 36 credit points from List B
- (iii) at least 144 credit points from Lists C and D with at least 48 credit points from List D
- (iv) a minimum of 288 credit points.

List A		Semester Offered	Credit Points	Contact Hrs/Wk
CSB155	Introduction to Computing	1,2	12	4
MAB301	Calculus and Analysis A	1,2	12	4
MAB303	Algebra and Analysis B	1,2	12	4
MAB347	Statistics 1A	1,2	12	4
List B				
MAB304	Calculus and Vector Algebra	1,2	12	4
MAB321	Computational Mathematics 1	1,2	12	4
MAB342	Mathematics of Finance	1,2	12	4
MAB348	Statistics 1B	1,2	12	4
List C				
MAB601	Multivariable Calculus	1	12	4
MAB612	Differential Equations	2	12	4
MAB618	Computational Mathematics 2	1,2	12	4
MAB620	Finite Mathematics	2	12	4
MAB630	Linear Algebra & its Applications	1	12	4
MAB632	Mathematical Modelling	2	12	4
MAB637	Operations Research 1A	1,2	12	4
MAB638	Operations Research 1B	2	12	4
MAB641	Actuarial Mathematics	1	12	4
MAB642	Methods of Mathematical Economics	2	12	4
MAB647	Statistics 2A	1	12	4
MAB648	Statistics 2B	2	12	4
Elective Units [a maximum total of 72 credit points with not more than 48 at first level]		1,2	8-12ea	3-6ea
List D				
MAB906	Topics in Analysis	1	12	4
MAB907	Statistics 3A	1	12	4
MAB908	Statistics 3B	2	12	4
MAB911	Computational Mathematics 3A	1	12	4
MAB912	Continuum Modelling	1	12	4
MAB913	Computational Mathematics 3B	2	12	4
MAB927	Operations Research 2A	1	12	4
MAB928	Operations Research 2B	2	12	4
MAB929	Time Series & Statistical Forecasting	2	12	4
MAB933	Mathematical Biology	1	12	4
MAB941	Mathematical Modelling in Economics	1	12	4
MAB942	Optimisation Methods	1	12	4
MAB960	Project Work	1,2	12	4
MAB970	Probability Theory & Stochastic Processes	1	12	4
MAB971	Advanced Mathematics of Finance	2	12	4
MAB973	Partial Differential Equations	2	12	4
MAB974	Sampling & Survey Techniques	2	12	4
SCB510	Introduction to Quality Management	1	12	4

Cooperative Education Program

A registered student who has completed the equivalent of the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the

discretion of the Cooperative Education Program Coordinator, undertake the Cooperative Education option.

This involves 10-12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the unit SCB100 Cooperative Education. On completion of the approved Cooperative Education placement the student resumes formal studies.

■ Bachelor of Applied Science (Medical Laboratory Science) (LS36)

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Pam Stallybrass

Professional Recognition

Graduates are immediately eligible for graduate membership of the Australian Institute of Medical Scientists and will have completed the academic requirements for admission as associate members.

Special Course Requirements

Students in the part-time program should be aware that they are required to attend much of their program during the day.

Students are required to undertake a two to four week work experience program in a practising pathology laboratory. This takes place at the end of the second year full-time and in a suitable vacation period during the part-time program. This is a requirement for the unit LSB480 Professional Practice.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB142	Chemistry 1	12	6
LSB118	Introduction to Life Science	12	6
LSB150	Human Anatomy	12	5
PHB150	Physics 1H	12	6
Year 1, Semester 2			
CHB242	Chemistry 2	12	6
LSB238	Cell & Molecular Biology 1	12	5
LSB250	Human Physiology	12	6
LSB260	Quantitative Methods in Life Science	12	5
Year 2, Semester 1			
CHB382	Chemistry 3	4	2
LSB300	Microbiology 3	8	4
LSB308	Biochemistry 3	12	5
LSB310	Quantitative Laboratory Technology 3	8	4
LSB340	Physiology 3	8	4
LSB370	Disease Processes 3	4	2
Year 2, Semester 2			
LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB430	Immunology 4	8	4

LSB437	Molecular Biology	8	4
LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4
LSB480	Professional Practice		2-4 wks
Year 3, Semester 1			
LSB500	Microbiology 5	16	7
LSB520	Clinical Biochemistry 5	8	4
LSB530	Immunology 5	8	4
LSB550	Haematology 5	8	4
LSB560	Histopathology 5	8	4
Year 3, Semester 2			
LSB600	Clinical Bacteriology 6	16	7
LSB620	Clinical Biochemistry 6	8	4
LSB630	Immunohaematology 6	8	4
LSB650	Haematology 6	8	4
LSB660	Histopathology 6	8	4
Part-Time Course Structure			
Year 1, Semester 1			
CHB142	Chemistry 1	12	6
LSB150	Human Anatomy	12	5
Year 1, Semester 2			
CHB242	Chemistry 2	12	6
LSB260	Quantitative Methods in Life Science	12	5
Year 2, Semester 1			
ISB382	Microcomputer Applications	8	3
LSB300	Microbiology 3	8	4
PHB150	Physics 1H	12	6
Year 2, Semester 2			
PHB262	Physics 2L	8	4
LSB260	Quantitative Methods in Life Science	12	5
Year 3, Semester 1			
CHB382	Chemistry 3	4	2
LSB308	Biochemistry 3	12	5
LSB310	Quantitative Laboratory Technology 3	8	4
Year 3, Semester 2			
LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB437	Molecular Biology	8	4
Year 4, Semester 1			
LSB340	Physiology 3	8	4
LSB370	Disease Processes 3	4	2
Year 4, Semester 2			
LSB430	Immunology 4	8	4
LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4
LSB480	Professional Practice		2-4 wks
Year 5, Semester 1			
LSB520	Clinical Biochemistry 5	8	4
LSB550	Haematology 5	8	4
LSB560	Histopathology 5	8	4
Year 5, Semester 2			
LSB620	Clinical Biochemistry 6	8	4
LSB650	Haematology 6	8	4
LSB660	Histopathology 6	8	4

Year 6, Semester 1

LSB530	Immunology 5	8	4
LSB600	Clinical Bacteriology 6	16	7

Year 6, Semester 2

LSB500	Microbiology 5	16	7
LSB630	Immunohaematology 6	8	4

■ Bachelor of Applied Science (Medical Radiation Technology) (PH38)

With majors in: Medical Imaging Technology and Radiotherapy Technology

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Brian J Thomas

Coordinators:

Medical Imaging Technology Major: Ms Pam Rowntree

Radiotherapy Technology Major: Ms Jan Veitch

Conversion Program

A program to allow holders of an associate diploma or diploma to upgrade to degree level is offered in both majors. Refer to PH90 for course details.

Course Structure

The course has been reaccredited, the following program will operate from 1995. (Subject to final approval.)

Full-Time Course Structure (Commencing students)		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COMMON UNITS			
LSB141	Anatomy 1	10	4
MAB151	Quantitative Techniques	4	2
NSB201	Principles of Patient Care	4	2
PHB111	Physics 1B	8	3
PHB178	Principles of Medical Radiations	12	6
SSB910	Introductory Psychology for Health Professionals	4	2
Year 1, Semester 2			
COMMON UNITS			
LSB221	Introduction to Pathology	8	3
LSB241	Anatomy 2	10	4
PHB272	Radiation Physics 1	12	5
MEDICAL IMAGING TECHNOLOGY MAJOR			
PHB275	Processing Technology	4	2
PHB276	General Radiography 1	12	6
PHB278	General Radiography Practice 1	8	3
RADIOTHERAPY TECHNOLOGY MAJOR			
PHB286	Treatment Planning 1	12	6
PHB287	Megavoltage Therapy 1	8	4

Full-time Course Structure (Continuing Students)

Year 2, Semester 1

COMMON UNITS

LSB321	Systematic Pathology	8	3
LSB341	Regional & Sectional Anatomy	8	4

MEDICAL IMAGING TECHNOLOGY MAJOR

PHB373	Nuclear Medicine Imaging 1	4	2
PHB374	Radiographic Equipment 1	6	3
PHB376	General Radiography 2	12	5
PHB379	Clinical Radiography 2	10	5

RADIOTHERAPY TECHNOLOGY MAJOR

PHB382	Radiotherapy Physics 1	4	2
PHB386	Treatment Planning 2	8	4
PHB387	Megavoltage Therapy 2	10	5
PHB389	Clinical Radiotherapy 2	10	5

Year 2, Semester 2

COMMON UNITS

PHB475	Medical Radiation Computing 1	8	3
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MEDICAL IMAGING TECHNOLOGY MAJOR

LSB441	Imaging Anatomy	8	4
PHB473	Medical Ultrasound	4	2
PHB474	Radiographic Equipment 2	4	2
PHB476	Special Procedures	8	3
PHB479	Clinical Radiography 3	8	4
PHB573	Digital Imaging Modalities	6	2

RADIOTHERAPY TECHNOLOGY MAJOR

PHB481	Dosimetry	6	3
PHB482	Radiotherapy Physics 2	6	3
PHB484	Principles of Treatment 1	6	3
PHB487	Megavoltage Therapy 3	10	4
PHB489	Clinical Radiotherapy 3	8	4
PHB585	Computer Assisted Treatment Planning 1	8	3

Year 3, Semester 1

COMMON UNITS

PHB471	Radiation Physics 2	4	2
PHB575	Medical Radiation Computing 2	8	3
PHB672/1	Project	6	

MEDICAL IMAGING TECHNOLOGY MAJOR

LSB421	Imaging Pathology	4	2
PHB572	Image Recording & Evaluation	4	2
PHB574	Quality Assurance in Medical Imaging	6	3
PHB576	Advanced Radiographic Technique 1	12	6
PHB578	Image Interpretation	4	2
PHB579	Clinical Radiography 4	8	4

RADIOTHERAPY TECHNOLOGY MAJOR

PHB584	Principles of Treatment 2	4	2
PHB587	Orthovoltage & Superficial Therapy	10	4
PHB589	Clinical Radiotherapy 4	12	6
PHB685	Computer Assisted Treatment Planning 2	8	4

Year 3, Semester 2

COMMON UNITS

PHB671	Radiation Biology	4	2
PHB672/2	Project	6	
SSB918	Counselling for Health Professionals	4	2

MEDICAL IMAGING TECHNOLOGY MAJOR			
PHB676	Advanced Radiographic Technique 2	8	3
PHB679	Clinical Radiography 5	14	6
Select one of the following units:			
PHB680	Nuclear Medicine Imaging 2	10	5
PHB681	Computed Tomography Imaging	10	5
RADIOTHERAPY TECHNOLOGY MAJOR			
PHB583	Complementary & Evolving Techniques	6	3
PHB683	Oncological Imaging	6	3
PHB687	Specialised Radiotherapy Technique 2	10	4
PHB689	Clinical Radiotherapy 5	8	4

■ Bachelor of Applied Science (Medical Radiation Technology) (PH90)

Conversion Course with majors in: Medical Imaging Technology and Radiotherapy Technology

Location: Gardens Point campus

Course Duration: 2 years part-time for holders of a Diploma in Radiography (QUT) or equivalent or 3 years part-time for holders of an Associate Diploma in Radiography (QUT) or equivalent. The programs are also available over half the duration mentioned above in full-time mode.

Total Credit Points: 96 (diploma holders); 144 (associate diploma holders).

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Associate Professor Brian Thomas

Coordinators:

Medical Imaging Technology Major: Ms Pam Rowntree

Radiotherapy Technology Major: Ms Jan Veitch

Part-Time Course Structure for Diploma Holders (for commencing students)

Year 1, Semester 1

COMMON UNITS

LSB321	Systematic Pathology	8	3
LSB341	Regional & Sectional Anatomy	8	4
MAB151	Quantitative Techniques	4	2

Year 1, Semester 2

COMMON UNITS

LSB441	Imaging Anatomy	8	4
PHB475	Medical Radiation Computing 1	8	3

Part-Time Course Structure for Diploma Holders (for continuing students)

Year 2, Semester 1

COMMON UNITS

PHB575	Medical Radiation Computing 2	8	3
PHB673/1	Project	2	1

MEDICAL IMAGING TECHNOLOGY MAJOR

LSB421	Imaging Pathology	4	2
PHB571	Quality Assurance in Medical Imaging	6	3
PHB578	Image Interpretation	4	2

RADIOTHERAPY TECHNOLOGY MAJOR		
PHB685	Computer Assisted Treatment Planning 2	8 4
Year 2, Semester 2		
COMMON UNIT		
PHB673/2	Project	6
MEDICAL IMAGING TECHNOLOGY MAJOR		
PHB670	Advanced Radiographic Practice 2	20 4
Select one of the following units:		
PHB680	Nuclear Medicine Imaging 2	10 5
PHB681	Computed Tomography Imaging	10 5
RADIOTHERAPY TECHNOLOGY MAJOR		
PHB687	Specialised Radiotherapy Technique 2	10 4
PHB889	Advanced Radiotherapeutic Practice	20 4

**Part-Time Course Structure for Associate Diploma Holders
(for commencing students)**

Year 1, Semester 1

COMMON UNIT		
LSB321	Systematic Pathology	8 3
LSB341	Regional & Sectional Anatomy	8 4
MEDICAL IMAGING TECHNOLOGY MAJOR		
PHB500	Advanced Imaging Practice 1	14 4
RADIOTHERAPY TECHNOLOGY MAJOR		
MAB151	Quantitative Techniques	4 2

Year 1, Semester 2

COMMON UNIT		
LSB441	Imaging Anatomy	8 4
MEDICAL IMAGING TECHNOLOGY MAJOR		
PHB473	Medical Ultrasound	4 2
PHB573	Digital Imaging Modalities	6
RADIOTHERAPY TECHNOLOGY MAJOR		
PHB475	Medical Radiation Computing 1	8 3
PHB585	Computer Assisted Treatment Planning 1	8 4

**Part-Time Course Structure for Associate Diploma Holders
(for continuing students)**

Year 2, Semester 1

MEDICAL IMAGING TECHNOLOGY MAJOR		
LSB341	Regional & Sectional Anatomy	8 4
LSB421	Imaging Pathology	4 2
MAB151	Quantitative Techniques	4 2
RADIOTHERAPY TECHNOLOGY MAJOR		
LSB321	Systematic Pathology	8 3
PHB471	Radiation Physics 2	4 2
PHB575	Medical Radiation Computing 2	8 3

Year 2, Semester 2

MEDICAL IMAGING TECHNOLOGY MAJOR		
LSB441	Imaging Anatomy	8 4
PHB475	Medical Radiation Computing 1	8 3
PHB679	Clinical Radiography 5	14

RADIOTHERAPY TECHNOLOGY MAJOR		
PHB583	Complementary & Evolving Techniques	6
PHB671	Radiation Biology	4
PHB683	Oncological Imaging	6

Year 3, Semester 1**COMMON UNIT**

PHB673/1	Project	2	1
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MEDICAL IMAGING TECHNOLOGY MAJOR

PHB571	Quality Assurance in Medical Imaging	6	3
PHB575	Medical Radiation Computing 2	8	3
PHB578	Image Interpretation 1	4	2

RADIOTHERAPY TECHNOLOGY MAJOR

PHB685	Computer Assisted Treatment Planning 2	8	4
PHB889	Advanced Radiotherapeutic Practice 2	20	4

Year 3, Semester 2**COMMON UNIT**

PHB673/2	Project	6	
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MEDICAL IMAGING TECHNOLOGY MAJOR

PHB670	Advanced Radiotherapeutic Practice 2	20	4
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Select one of the following units:

PHB680	Nuclear Medicine Imaging 2	10	5
PHB681	Computed Tomography Imaging	10	5

RADIOTHERAPY TECHNOLOGY MAJOR

PHB687	Specialised Radiotherapy Technique 2	10	4
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■ Associate Degree in Applied Science (Biology)

Associate Degree in Applied Science (Chemistry) (SC12)

Location: Gardens Point campus**Course Duration:** 2 years full-time, 4 years part-time**Total Credit Points:** 192**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Dr Graham Smith**Full-Time Course Structure****(Year 1, Semester 1 common to both Majors)****Year 1, Semester 1**

		Credit Points	Contact Hrs/Wk
CHA111	Laboratory Techniques	8	3
CHA145	Introductory Chemistry	8	3
LSX110	Introductory Biology	8	3
LSX111	Microscopy Techniques	8	3
MAA251	Statistics & Data Processing	8	3
PHA154	Introductory Physics	8	3

BIOLOGY MAJOR**Year 1, Semester 2**

CHA218	Analytical Chemistry 1	8	3
CHA240	Instrumental Techniques	8	3
LSX210	Biology B	8	3
LSX211	Cell Structure & Function	8	3
LSX212	Biological Data Handling	8	3
LSX213	Introductory Biochemistry	8	3

Year 2, Semester 1

CHA442	Introduction to Occupational Safety	4	2
LSX310	Introduction to Bioculture	8	3
LSX311	Computer Applications in Biology	8	3
LSX312	Animal & Plant Techniques	12	4

Plus two elective units selected from:

LSX313	Taxonomy	8	3
LSX316	Hydrobiological Techniques	8	3
	Other approved Elective Units		

Year 2, Semester 2

LSX223	Microbiology 2	8	3
LSX410	Environmental Biology	8	3
LSX411	Population Biology	8	3
LSX412	Field Techniques	8	3
LSX413	Applications in Electron Microscopy	8	3

Plus one elective unit selected from:

CSA259	Introduction to Computing	8	2
	Any other approved Elective Unit		

CHEMISTRY MAJOR**Year 1, Semester 2**

CHA218	Analytical Chemistry 1	8	3
CHA219	Qualitative Analysis	6	3
CHA230	Chemistry of Inorganic Materials	4	2
CHA240	Instrumental Techniques	8	3
CHA250	Organic Chemistry 1	8	3
CHA270	Physical Chemistry 1	8	3
CSA259	Introduction to Computing	8	2

Year 2, Semester 1

CHA318	Instrumental Analytical Chemistry	8	4
CHA319	Analytical Chemistry 2	6	3
CHA320	Chemical Process Principles 1	8	3
CHA350	Organic Chemistry 2	8	3
CHA370	Physical Chemistry 2	6	2
CHA442	Introduction to Occupational Safety	4	2

Plus one elective unit selected from:

ESA310	Geology	8	3
LSX123	Microbiology 1	8	3
	Any other approved Elective Unit		

Year 2, Semester 2

CHA368	Industrial Chemistry	8	3
CHA410	Computers in Chemistry	8	3
CHA550	Organic Chemistry 3	8	3
CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry 3	8	3

Plus one elective unit selected from:

LSX213	Introductory Biochemistry	8	3
LSX223	Microbiology 2	8	3
	Any other approved Elective Unit		

Part-Time Course Structure

Part-time programs can be organised in consultation with the Course Coordinator. Refer to the full-time program for semesters in which units are offered. Day release from employment will be required for most units.

Notes: Students should discuss their choice of elective units with the Course Coordinator.

Students in the Biology Major with relevant technical experience may seek total or partial exemption from one or more of the elective units of the course.

Students participate in excursions and field work where these form part of the curriculum. Occasionally field work may be scheduled at weekends or during University recess periods.

■ Associate Degree in Clinical Techniques (LS12)

With elective units in: Laboratory Techniques and Anaesthetic Techniques

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Pam Stallybrass

Professional Recognition

LABORATORY TECHNIQUES ELECTIVE UNITS

This program is recognised by both the Commonwealth and State Governments as a suitable employment qualification. Graduates from this program are recognised by the Australian Institute of Medical Scientists and are eligible to become intermediate members of this professional body.

ANAESTHETIC TECHNIQUES ELECTIVE UNITS

This program is endorsed by the College of Anaesthetists.

Special Course Requirements

Students may undertake the course on a full-time or part-time basis. Part-time students are required to attend lectures during normal working hours.

Full-Time Course Structure

The first year is common to both Programs

Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
COX194	Communication Techniques	4	2
LSX121	Biological Chemistry 1	8	4
LSX122	Laboratory Instrumentation 1	8	4
LSX123	Microbiology 1	8	3
LSX124	Perspectives in Medicine	4	1
LSX125	Anatomy & Physiology 1	8	3
PHA154	Introductory Physics	8	3

Year 1, Semester 2

LSX221	Biological Chemistry 2	8	4
LSX222	Laboratory Instrumentation 2	8	4
LSX223	Microbiology 2	8	3
LSX224	Pathology	8	2
LSX225	Anatomy & Physiology 2	8	3
PHA213	Medical Instrumentation 2	8	4

In Year 2 students should choose either the Laboratory Techniques Elective Units (Group A) or the Anaesthetic Techniques Elective Units (Group B).

LABORATORY TECHNIQUES PROGRAM

Year 2, Semester 1

MAA251	Statistics & Data Processing	8	3
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Group A Elective Units

Five of the following:

LSX320	Clinical Biochemical Techniques 3	8	4
LSX321	Clinical Microbiological Techniques 3	8	4

LSX322	Haematological Techniques 3	8	4
LSX323	Histological Techniques 3	8	4
LSX324	Immunological Techniques 3	8	4
LSX325	Cytological Techniques 3	8	4

Year 2, Semester 2

CSA259	Introduction to Computing	8	2
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Group A Elective Units

Five of the following:

LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4
LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

ANAESTHETIC TECHNIQUES PROGRAM

Group B Elective Units

Year 2, Semester 1

LSX331	Foundations of Anaesthetic Techniques	12	5
LSX332	Physiology and Pharmacology	12	5
LSX333/1	Electronics and Computing	6	5
LSX334	Operating Room Equipment	12	5

Year 2, Semester 2

LSX333/2	Electronics & Computing	6	5
LSX431	Cardiac Care and Resuscitation	12	5
LSX432	Care of Respiratory Airways & Intensive Care	12	5
LSX433	Anaesthesia for Specialised Surgery	12	5
LSX434	Professional Practice	12	5

Part-time Course Structure

In Year 3, Semester 1 students should choose either the Laboratory Techniques Elective Units or the Anaesthetic Techniques Elective Units.

LABORATORY TECHNIQUES PROGRAM

Students enrolled in the part-time program are required to pass Introduction to Computing together with five Techniques 3 units and five Techniques 4 units over the four semesters.

Year 3, Semester 1

LSX320	Clinical Biochemical Techniques 3	8	4
LSX321	Clinical Microbiological Techniques 3	8	4
LSX322	Haematological Techniques 3	8	4

Year 3, Semester 2

CSA259	Introduction to Computing	8	2
LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4

Year 4, Semester 1

LSX323	Histological Techniques 3	8	4
LSX324	Immunological Techniques 3	8	4
LSX325	Cytological Techniques 3	8	4

Year 4 Semester 2

LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

ANAESTHETIC TECHNIQUES PROGRAM

Note: Students wishing to study the second year of the full-time course in a part-time program should consult the Course Coordinator.

■ Associate Diploma in Applied Science (Biology)

Associate Diploma in Applied Science (Chemistry) (SC10)

Course discontinued: This course is replaced by Associate Degree in Applied Science (SC12).

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Graham Smith

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
BIOLOGY MAJOR			
Year 2, Semester 1			
CHA442	Introduction to Occupational Safety	4	2
LSX310	Introduction to Bioculture	8	3
LSX311	Computer Applications in Biology	8	3
LSX312	Animal & Plant Techniques	12	4
Plus two elective units selected from:			
LSX313	Taxonomy	8	3
LSX316	Hydrobiological Techniques	8	3
	Other approved Elective Units		
Year 2, Semester 2			
LSX223	Microbiology 2	8	3
LSX410	Environmental Biology	8	3
LSX411	Population Biology	8	3
LSX412	Field Techniques	8	3
LSX413	Applications in Electron Microscopy	8	3
Plus one elective unit selected from:			
CSA259	Introduction to Computing	8	2
	Any other approved Elective Unit		
CHEMISTRY MAJOR			
Year 2, Semester 1			
CHA318	Instrumental Analytical Chemistry	8	4
CHA319	Analytical Chemistry 2	6	3
CHA320	Chemical Process Principles 1	8	3
CHA350	Organic Chemistry 2	8	3
CHA370	Physical Chemistry 2	6	2
CHA442	Introduction to Occupational Safety	4	2
Plus one elective unit selected from:			
ESA310	Geology	8	3
LSX123	Microbiology 1	8	3
	Any other approved Elective Unit		
Year 2, Semester 2			
CHA368	Industrial Chemistry	8	3
CHA410	Computers in Chemistry	8	3
CHA550	Organic Chemistry 3	8	3
CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry 3	8	3
Plus one elective unit selected from:			
LSX213	Introductory Biochemistry	8	3
LSX223	Microbiology 2	8	3
	Any other approved Elective Unit		

Part-Time Course Structure

Part-time programs can be organised in consultation with the Course Coordinator. Refer to the full-time program for semesters in which units are offered. Day release from employment will be required for most units.

Notes: Students should discuss their choice of elective units with the Course Coordinator.

Students in the Biology Major with relevant technical experience may seek total or partial exemption from one or more of the elective units of the course.

Students participate in excursions and field work where these form part of the curriculum. Occasionally field work may be scheduled at weekends or during University recess periods.

■ Associate Diploma in Clinical Techniques (LS15)

With elective units in: Laboratory Techniques and Anaesthetic Techniques

Course Discontinued: This course is being phased out. There will be no further intakes. It is replaced by the Associate Degree in Clinical Techniques (LS12)

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Pam Stallybrass

Professional Recognition

LABORATORY TECHNIQUES ELECTIVE UNITS

This program is recognised by both the Commonwealth and State Governments as a suitable employment qualification. Graduates from this program are recognised by the Australian Institute of Medical Scientists and are eligible to become intermediate members of this professional body.

ANAESTHETIC TECHNIQUES ELECTIVE UNITS

This program is endorsed by the College of Anaesthetists.

Special Course Requirements

Students may undertake the course on a full-time or part-time basis. Part-time students are required to attend lectures during normal working hours.

Full-Time Course Structure

LABORATORY TECHNIQUES PROGRAM

Year 2, Semester 1

MAA251 Statistics & Data Processing

Credit Points	Contact Hrs/Wk
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8

3

Group A Elective Units

Five of the following:

LSX320	Clinical Biochemical Techniques 3
LSX321	Clinical Microbiological Techniques 3
LSX322	Haematological Techniques 3
LSX323	Histological Techniques 3
LSX324	Immunological Techniques 3
LSX325	Cytological Techniques 3

8

4

8

4

8

4

8

4

8

4

8

4

Year 2, Semester 2

CSA259 Introduction to Computing

8

2

Group A Elective Units

Five of the following:

LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4
LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

ANAESTHETIC TECHNIQUES PROGRAM**Group B Elective Units****Year 2, Semester 1**

LSX331	Foundations of Anaesthetic Techniques	12	5
LSX332	Physiology and Pharmacology	12	5
LSX333/1	Electronics and Computing	6	5
LSX334	Operating Room Equipment	12	5

Year 2, Semester 2

LSX333/2	Electronics & Computing	6	5
LSX431	Cardiac Care and Resuscitation	12	5
LSX432	Care of Respiratory Airways & Intensive Care	12	5
LSX433	Anaesthesia for Specialised Surgery	12	5
LSX434	Professional Practice	12	5

Part-time Course Structure

In Year 3, Semester 1 students should choose either the Laboratory Techniques Elective Units or the Anaesthetic Techniques Elective Units.

LABORATORY TECHNIQUES PROGRAM

Students enrolled in the part-time program are required to pass Introduction to Computing together with five Techniques 3 units and five Techniques 4 units over the four semesters.

Year 3, Semester 1

LSX320	Clinical Biochemical Techniques 3	8	4
LSX321	Clinical Microbiological Techniques 3	8	4
LSX322	Haematological Techniques 3	8	4

Year 3, Semester 2

CSA259	Introduction to Computing	8	2
LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4

Year 4, Semester 1

LSX323	Histological Techniques 3	8	4
LSX324	Immunological Techniques 3	8	4
LSX325	Cytological Techniques 3	8	4

Year 4 Semester 2

LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

ANAESTHETIC TECHNIQUES PROGRAM

Note: Students wishing to study the second year of the full-time course in a part-time program should consult the Course Coordinator.

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4

Unit Synopses

UNIT SYNOPSES

This section provides synopses of the units offered in the 'Academic Programs' section of this Handbook.

The synopses are presented in alpha-numeric order according to their codes.

Unit Coding and Numbering

The unit code is of the format XXX999. The first two characters indicate the faculty or school administering the unit. The third character indicates the level of the course in which the unit is normally taught.

Unit Coding

AA	Academy of the Arts
AL	Accounting Legal Studies
AR	Architecture, Interior and Industrial Design
AT	Arts
AY	Accountancy
BN	Built Environment and Engineering
BS	Business
CE	Civil Engineering
CH	Chemistry
CN	Construction Management
CO	Communication and Organisational Studies
CP	Cultural and Policy Studies
CS	Computing Science
CU	Curriculum and Professional Studies
EA	Early Childhood
ED	Education
EE	Electrical and Electronic Engineering
EP	Economic and Public Policy
ES	Geology
FN	Finance
HL	Health
HM	Human Movement Studies
HR	Human Resource Management and Labour Relations
HU	Humanities
IF	Interfaculty Courses
IS	Information Systems
IT	Information Technology
JS	Justice Studies
LA	Language and Literacy Education
LE	Learning and Development
LP	Legal Practice
LS	Life Science

LW	Law
MA	Mathematics
MD	Mathematics, Science and Technology Education
ME	Mechanical and Manufacturing Engineering
MJ	Media and Journalism
MK	Marketing, Advertising and Public Relations
NS	Nursing
OP	Optometry
PH	Physics
PS	Planning, Landscape Architecture and Surveying
PU	Public Health
SB	Social, Business and Environmental Education
SC	Science
SS	Social Science
SV	Surveying

Level Indicators

X =	Certificate, Associate Diploma, Associate Degrees, Diploma
B =	Degree
P =	Graduate Diploma
N =	Masters Degree
R =	Doctoral
A =	Associate Diploma (all schools except Engineering)*
T =	Associate Diploma in Engineering*
S =	Special Units

* Codes to be phased out as existing QUT courses are reaccredited.

Prerequisite and Co-requisite Units

For definitions of the terms prerequisite and co-requisite unit(s), refer to Rule 1.8.2 of the Student Rules, Policies and Procedures in this Handbook.

■ AAB001 RESEARCH PROJECT

Students undertake a substantial piece of supervised research after academic advisement. This might include practical work and associated seminars.

Course: AA40

Credit Points: 48

■ AAB002 GRADUATE SEMINAR

A seminar series for Honours students involving presentations by guests; staff discuss current research interests and students report on issues arising in their own thesis work.

Course: AA40

Credit Points: 12

Contact Hours: 3 per week

■ AAB021 ADVANCED RESEARCH METHODS

Familiarisation with a range of (mostly) quantitative methodological tools. Methodologies selected tend to meet the students' requirements.

Course: AA40

Credit Points: 12

Contact Hours: 3 per week

■ AAB023 ADVANCED READINGS IN AUSTRALIAN ART

Examination of contemporary issues about Australian art practice and context; articulation of the Australian situation with international trends.

Course: AA40

Credit Points: 12

Contact Hours: 3 per week

■ AAB051 ARTS IN SOCIETY

Images of the artist in various cultures; artistic modes (music, dance, drama, visual arts); functions of the arts (ritual, celebration, revolt); the role and place of the arts in contemporary Australian society.

Courses: AA11, AA21, AA51, AA71

Credit Points: 12

Contact Hours: 3 per week

■ AAB052 SIGNS & MEANINGS

Concepts of the sign advanced by Saussure and Peirce; how signs are organised into codes or rule-governed systems dependent on agreement amongst their users; how they rest upon a shared cultural background; how signs interact with the cultural and personal experience of the user (Barthes' notions of connotation, myth and symbol; Jacobson's metaphor/metonymy dichotomy); the function of ideology particularly in relation to the ideas advanced by Raymond Williams and Barthes.

Courses: AA21, AA71, ED50

Credit Points: 12

Contact Hours: 3 per week

■ AAB100 COMPOSITION 1

Introduction to the domain of composition, providing a sound grounding in approaches to dance making: developing a personal movement language and an investigation of how dance presents/creates meaning.

Course: AA11

Credit Points: 8

Contact Hours: 3 per week

■ AAB101 DANCE KINESIOLOGY & ALIGNMENT

The anatomical structure and alignment techniques, their function and application to increase dance technique facility and lessen dance injuries.

Course: AA11

Credit Points: 12

Contact Hours: 3 per week

■ AAB104 MUSIC

Elements of music: beat, accent, rhythm and phrasing; nineteenth and twentieth century musical styles; notation, score reading, vocal and improvisation studies.

Course: AA11

Credit Points: 8

Contact Hours: 3 per week

■ AAB106 DANCE ANALYSIS & HISTORY 2

Introduction to the analysis of dance through a

concentration on the dance as text; a study of various historical contexts of dance as art. Focus on modern/contemporary dance.

Course: AA11

Credit Points: 12

Prerequisite: AAB125

Contact Hours: 3 per week

■ AAB109 PRACTICUM

Consolidation of the student's knowledge and skills in direct artistic experience in real contexts.

Course: AA11

Credit Points: 12

■ AAB111 DANCE RESEARCH

Practical training in scholarly methods and professional skills in research.

Course: AA11

Credit Points: 8

Contact Hours: 2 per week

■ AAB112 HISTORY OF AUSTRALIAN THEATRE DANCE

A study of the development of dance as an art form in Australia in the twentieth century.

Course: AA11

Credit Points: 8

Contact Hours: 3 per week

■ AAB113 WRITINGS ON DANCE

Strategies for reading and writing exposition and argument with emphasis on clarity of expression and presentation of thought.

Course: AA11

Credit Points: 12

Contact Hours: 2 per week

■ AAB114 DANCE IN AUSTRALIAN SOCIETY

The ritual, artistic and social functions of dance in contemporary Australian society.

Course: AA11

Credit Points: 12

Contact Hours: 3 per week

■ AAB115 PROFESSIONAL DEVELOPMENT STUDIES

Preparation for the dance industry; preparation of curriculum vitae and funding applications; auditions; contracts; press relations and management.

Course: AA11

Credit Points: 8

Contact Hours: 2 per week

■ AAB116 DANCE IN THE COMMUNITY

Introductory studies of dance in the community; the role of dance in the community; procedures for establishing a dance project; basic program planning; teaching approaches for community dance.

Course: AA11

Credit Points: 12

Contact Hours: 3 per week

■ AAB117 DANCE IN EDUCATION

The philosophy of the arts in education, particularly dance; role and profile of an arts educator; investigation of domains involved in arts learning.

Courses: AA11, ED22

Credit Points: 12

Contact Hours: 3 per week

■ AAB118 DANCE INDEPENDENT STUDY

Students are required to design and carry through a major program on their own initiative after negotiation and consultation with lecturing staff.

Course: AA11

Credit Points: 16

■ AAB121 CONTEMPORARY TECHNIQUE 1

Designated Unit. The basic contemporary dance vocabulary; study of Graham, Cunningham or Limon Technique; reference to development of strength, flexibility and placement of spine and limbs; basic combinations of movements; analysis of dance sequences.

Course: AA11

Credit Points: 16

Contact Hours: 7.5 per week

■ **AAB122 CONTEMPORARY TECHNIQUE 2**
Designated Unit. Technical work: off-balance turns and rapid changes of weight, level and direction; exploration of rhythm; emphasis on performance of sequence work.
Course: AA11 Prerequisite: AAB121
Credit Points: 16 Contact Hours: 7.5 per week

■ **AAB123 CLASSICAL TECHNIQUE 1**
Designated Unit. Review and consolidation of the fundamental technique and its application designed to reinforce and develop an appropriate range of technical skills within the four tier practical level system.
Course: AA11
Credit Points: 16 Contact Hours: 6 per week

■ **AAB124 CLASSICAL TECHNIQUE 2**
Designated Unit. Consolidation of technique; study of variety of selected approaches to classical ballet and development of appropriate range of technical skills within the four-tier practical level system.
Course: AA11 Prerequisite: AAB123
Credit Points: 16 Contact Hours: 6 per week

■ **AAB125 DANCE ANALYSIS & HISTORY 1**
Introduction to the analysis of dance through a concentration on the dance as text; a study of various historical contexts of dance as art. Focus on ballet.
Course: AA11
Credit Points: 12 Contact Hours: 3 per week

■ **AAB126 COMPOSITION & PRODUCTION TECHNIQUES**
The conceptual base of the medium and of the heuristic principles governing the making of dance; exploration of more formal dynamic, temporal and spatial structures, deemed historically appropriate as a means of structuring movement and conveying a choreographer's intention; elements of theatre production; lighting, sound and costume.
Course: AA11 Prerequisite: AAB100
Credit Points: 16 Contact Hours: 5 per week

■ **AAB151 CONTEMPORARY TECHNIQUE 1**
The basic contemporary dance vocabulary (contraction, release, etc.); reference to development of strength, flexibility and placement of spine and limbs.
Course: AA11
Credit Points: 12 Contact Hours: 4.5 per week

■ **AAB152 CONTEMPORARY TECHNIQUE 2**
Continuation of AAB102. Basic combinations of movements; analysis of dance sequences.
Course: AA11 Prerequisite: AAB121
Credit Points: 12 Contact Hours: 4.5 per week

■ **AAB153 ADVANCED PERFORMANCE 1**
Attainment of outstanding practical skills combining use of aesthetic quality and artistry.
Course: AA11
Prerequisites: Grade of 6 or 7 in AAB121 and AAB123.
Credit Points: 20

■ **AAB154 ADVANCED PERFORMANCE 2**
Continuation of AAB153.
Course: AA11 Prerequisite: AAB153
Credit Points: 36

■ **AAB155 ADVANCED ANALYSIS: BALLET**
The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet.
Course: AA11 Prerequisite: AAB106
Credit Points: 12 Contact Hours: 2 per week

■ **AAB156 ADVANCED ANALYSIS: MODERN DANCE**
The aesthetic appreciation and analysis of the masterworks of modern/contemporary dance.
Course: AA11 Prerequisite: AAB106
Credit Points: 12 Contact Hours: 2 per week

■ **AAB157 ADVANCED ANALYSIS: COMPARATIVE STUDY**
The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet or modern/contemporary dance used to engage in a comparison of features of specific dances chosen for detailed study.
Course: AA11 Prerequisites: AAB155, AAB156
Credit Points: 12 Contact Hours: 1 per week

■ **AAB158 ADVANCED COMPOSITION 1**
Exploration of how dance creates meaning: the aesthetic questions that have emerged out of the last major choreographic movement; an exploration of possible future directions.
Course: AA11 Co-requisite: AAB155
Credit Points: 8 Contact Hours: 5 per week

■ **AAB159 ADVANCED COMPOSITION 2**
Contact improvisation and its use as a basis for the development of partner work; the range of traditional and non-traditional forms available to the choreographer when working with groups of varying sizes.
Course: AA11 Co-requisite: AAB156
Credit Points: 12 Contact Hours: 5 per week

■ **AAB160 ADVANCED COMPOSITION 3**
The links between technology and dance in the areas of light and sound - the principal elements of dance design; a major individual project that involves the application and integration of a range of technology.
Course: AA11 Prerequisites: AAB158, AAB159
Credit Points: 12 Contact Hours: 5 per week

■ **AAB161 DANCE IN THE COMMUNITY 1**
In depth studies in teaching dance: program planning and teaching approaches for specific dance groups.
Course: AA11
Credit Points: 16 Contact Hours: 3 per week

■ **AAB162 DANCE IN THE COMMUNITY 2**
Students are required as a group to initiate, devise, develop and produce a dance within the community with the emphasis on management skills.
Course: AA11 Prerequisite: AAB161
Credit Points: 16 Contact Hours: 3 per week

■ **AAB163 DANCE IN THE COMMUNITY 3**
Students are required to individually initiate, devise, develop and produce a dance project within the community with the emphasis on the creativity and production of the project.
Course: AA11 Prerequisite: AAB162
Credit Points: 16 Contact Hours: 3 per week

■ **AAB164 DANCE ELECTIVE**
Students are required to select topics for further study in consultation with the Course Coordinator.
Course: AA11
Credit Points: 8

■ **AAB202 ACTING 1**
Psychological and non-psychological approaches to acting and the actor's preparation techniques; Stanislavski-based approaches to realism, elimination of bad habits and theatrical dishonesty; Brecht-based approaches to issues-based theatre and their presentational styles. Lectures, tutorials and rehearsals involving selected extracts from modern plays, with in-house performances. Exploration of appropriate actor's exercises.

Courses: AA21, ED22, ED50

Credit Points: 12 Contact Hours: 4 per week

■ **AAB203 ACTING 2**

Designated Unit for AA21 Acting Strand. Focus on Shakespeare; work on verse, small scenes and soliloquies.

Courses: AA21, ED22 Prerequisite: AAB202

Credit Points: 12 Contact Hours: 4 per week

■ **AAB204 VOICE & MOVEMENT 1**

Body awareness; sense of space; breathing; expression and articulation; text and context; research.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 4 per week

■ **AAB205 VOICE & MOVEMENT 2**

Awareness through movement; freeing the natural voice; development of holistic response to text; exploration of physical and emotional levels in characterisation; review of research relative to the study of voice and movement; alternative teaching styles; comparative analysis and personal synthesis.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 4 per week

■ **AAB206 STAGECRAFT 1**

Scenery construction; stage properties: budget and purchasing, hiring and borrowing, categorisation, storage and use; stage lighting: electricity, rigging and focusing of lanterns, maintenance and repairs, operating principles; stage costumes: hire of costumes, pattern styling, use of sewing machine, fabric construction to create costumes.

Course: AA21

Credit Points: 12 Contact Hours: 4 per week

■ **AAB207 STAGECRAFT 2**

Theatre sound: sound effects, live and recorded, stage sound equipment. Stage management: coordinating and enhancing theatre production. Basic lighting design: use of colour and lighting angles, painting with light, computer controlled equipment, stage lighting organisation and documentation. Theatre administration: funding applications; front-of-house organisation, systems of ordering, purchasing, petty cash.

Course: AA21

Credit Points: 12 Contact Hours: 4 per week

■ **AAB208 ELEMENTS OF DRAMA**

Minimal drama: fiction plus tension; three dimensions of expression: light/dark, movement/stillness, sound/silence; three elements of dramatic form: space, time, communication; symbols and meaning; distance from the action; communicating ideas.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB211 DEVELOPMENT OF THEATRE 1**

Origins of theatre: Greek drama/theatre; medieval theatres in Europe; theatre in Asia; theatre of the English Renaissance; theatre of the Italian Renaissance; royal theatre of France and of England; England's popular theatre of the nineteenth century.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB212 DEVELOPMENT OF THEATRE 2**

Realism; naturalism; symbolism/expressionism; epic theatre; absurd; current theatre; South East Asian theatre; Australian theatre before and after World War II; community theatre.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB213 DIRECTING**

Functions of the director from casting to rehearsal to

performance; organisation procedures and relationship to other production staff; the director's role as intermediary between text, actor and audience; differing definitions of that role; personal style; seminars on contemporary directors.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB214 DRAMA PROCESS**

Workshops involving individual, face-to-face and group role play; participant enrolment, leader-in-role and intervention; identification with role; negotiation, devising and consequent decision-making; dramatic tension and resolution; structuring for the theme and for the dramatic moment; distancing devices; reflection, re-enactment and remaking.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB215 THEATRE DESIGN**

Establishing the scene; staging alternatives; lighting and scenery; costume design; scale models; drawings.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB216 PLAYWRIGHTING**

An introduction to writing text for performance and appraising scripts; the main qualities of dramatic writing are identified; the working environment for dramatic writers in Australia is considered.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB217 ARTS RESEARCH & EVALUATION 1**

Accessing and collation of pertinent resources, critical observation techniques; case study methods.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB218 ARTS RESEARCH & EVALUATION 2**

Study of a major play in production or a project involving performance from one frame of reference.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB219 PROFESSIONAL STUDIES**

Theatre and Australian society; funding and status of Australian theatre; different manifestations: professional, amateur, community; historical patterns; models of initiatives in theatre; designing for a community need; preparing a curriculum vitae; job applications, meeting procedures.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB220 THEATRE STUDIES OPTION**

Specialised work in one of the theatre studies areas: directing, design, playwrighting or theatre in education, or a related area by negotiation.

Course: AA21

Credit Points: 12

■ **AAB225 PRACTICUM 1**

Students have an opportunity to practise as artists within a specific community and to participate in an artistic/advocacy project in the community. Elective unit studies influence the emphasis of the practicum, which involves one of the three main communities identified: artistic, public, institutional.

Courses: AA21, ED50

Credit Points: 12

■ **AAB226 PRACTICUM 2**

See AAB225.

Course: AA21

Credit Points: 12

Prerequisite: AAB225

■ AAB227 PRACTICUM 3

See AAB225.

Course: AA21

Prerequisite: AAB226

Credit Points: 12

■ AAB233 VOICE & MOVEMENT 3

Designated Unit. The psychological and physiological underpinning of voice and body work required by actors; development of voice and speech fluency; development of physical awareness and corporeal skills required to begin character work.

Course: AA21

Prerequisite: AAB205

Credit Points: 12

Contact Hours: 6 per week

■ AAB234 VOICE & MOVEMENT 4

Designated Unit. The application of a range of text and physical styles; the use of performance space; continual development of the actor's physical and vocal skills; video and film techniques.

Course: AA21

Prerequisite: AAB233

Credit Points: 12

Contact Hours: 6 per week

■ AAB235 VOICE & MOVEMENT 5

Development of an audition portfolio; voice and movement work for the camera.

Course: AA21

Prerequisite: AAB234

Credit Points: 12

Contact Hours: 6 per week

■ AAB236 VOICE & MOVEMENT 6

Work in productions; consolidation of skills required in the Voice and Movement program.

Course: AA21

Prerequisite: AAB235

Credit Points: 12

Contact Hours: 3 per week

■ AAB246 MUSIC & DANCE

Physical skills including: elongation of the spine; movement from the centre; alignment; articulation; opposition; lift and placement; basic combinations of locomotor movements; elements of dance; style, performance skills. Aural comprehension and notation of rhythm and pitch; vocal technique; principles of style.

Course: AA21

Credit Points: 12

Contact Hours: 4 per week

■ AAB247 ACTING 3

Designated Unit. Philosophies of theatre and their relation to performance; exercises, research and practical work on selected texts. Introduction to acting for the camera.

Course: AA21

Prerequisite: AAB203

Credit Points: 12

Contact Hours: 6 per week

■ AAB248 ACTING 4

Research, rehearsal and performance.

Course: AA21

Prerequisite: AAB247

Credit Points: 12

Contact Hours: 6 per week

■ AAB250 THEATRE PRODUCTION

Specific major tasks of acting, stage management or administration duties for two or more productions by the drama program, requiring a high level of personal responsibility.

Course: AA21

Credit Points: 36

■ AAB261 THE ARTS ENVIRONMENT

Introduction to the context for arts management; economics of the arts; formation of national and state arts policy; interplay amongst arts organisations and related fields of endeavour like the media, the education system, business and recreation.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB262 ARTS FINANCE

Introduction to basic accounting practices; planning and monitoring the use of money in the arts, including the

preparation of funding submissions in non-profit situations.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB263 ARTS MARKETING

General principles of marketing; the marketing plan; applications in the arts; planning, research and analysis, targeting, costing and presenting to the client.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB264 ARTS EVENTS PROMOTION

Publicity, public relations and advertising in the arts context. Practical skills for low-budget operations.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB265 ISSUES IN ARTS MANAGEMENT

Philosophical and practical issues confronting the modern day arts manager. Fundraising and sponsorship; law and the arts; issues and current issues, eg. multiculturalism, tourism.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB266 ARTS EVENTS PLANNING

Researching and producing either strategic, operational or human resource management plans; confronting practical and philosophical issues in arts planning.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

■ AAB289 PRODUCTION TECHNIQUES 1

Lighting – rigging and focussing; operation of manual and basic memory control systems; operator paperwork; basic colour theory. Sound – recording and editing effects; set up of basic theatre sound system; playback techniques; operator paperwork. Set construction: interpreting working drawings; costing and material selection; safety procedures.

Course: AA21

Prerequisites: AAB206, AAB207

Credit Points: 12

Contact Hours: 6 per week

■ AAB290 PRODUCTION TECHNIQUES 2

Lighting design theory; procedures and planning; practical application of theory; communication in the production team; current practice.

Course: AA21

Prerequisite: AAB289

Credit Points: 12

Contact Hours: 6 per week

■ AAB291 PRODUCTION TECHNIQUES 3

Sound design theory; procedures and planning; practical application of theory; communication in the production team; current practice.

Course: AA21

Prerequisite: AAB289

Credit Points: 12

Contact Hours: 6 per week

■ AAB292 STAGE MANAGEMENT 1

Stage management planning and procedures from the pre-production period to the performance season. Communication in the production team.

Course: AA21

Prerequisites: AAB206, AAB207

Credit Points: 12

Contact Hours: 6 per week

■ AAB293 STAGE MANAGEMENT 2

Wardrobe management and stage props management. Elementary theatre design, working drawings/patterns, construction techniques, maintenance.

Course: AA21

Prerequisites: AAB206, AAB207

Credit Points: 12

Contact Hours: 6 per week

■ AAB294 STAGE MANAGEMENT 3

Advanced practical stage management exercises: tour planning and management; stage management across performance disciplines; score reading.

Course: AA21

Prerequisite: AAB293

Credit Points: 12

Contact Hours: 6 per week

■ **AAB302 CHILDREN'S PLAY TO PERFORMANCE**

The function of children's dramatic play, role-taking and fantasy in social development from ages 1 to 18.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

■ **AAB303 THEATRE IN EDUCATION**

The characteristics of theatre-in-education and participatory theatre forms; skills in group leadership, negotiation of ideas and forms, planning and conducting drama events; dynamics of leadership; management of space, time, energy levels and group rhythms.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB304 FORMING KNOWLEDGE**

The approaches to art taken by major aestheticians; the characteristics and significance of the aesthetic field; the way the arts contribute to the development of mind and knowledge; modes of knowing, propositional knowledge and tacit understanding.

Courses: AA21, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB305 ADVANCED DRAMA PROCESS**

The nature of experiential drama; pace and time; shape and externals; reflection and refraction; evaluation; devising process drama.

Courses: AA21, ED22, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **AAB321 ADVANCED DESIGN 1**

Research project on the origins and development of design and theatre; practical design involvement in a drama production.

Course: AA21

Prerequisite: AAB215

Credit Points: 12

■ **AAB322 ADVANCED DESIGN 2**

The philosophy and practice of a specific designer; assignment to a production as designer or assistant designer.

Course: AA21

Prerequisite: AAB321

Credit Points: 12

■ **AAB324 ADVANCED DIRECTING 1**

Research project on the origins and development of the role of the director; practical work assisting the director of a production.

Course: AA21

Prerequisite: AAB213

Credit Points: 12

■ **AAB325 ADVANCED DIRECTING 2**

The philosophy and practice of a major director; assignment to a major production as assistant director or directing own production.

Course: AA21

Prerequisite: AAB324

Credit Points: 12

■ **AAB327 ADVANCED PLAYWRIGHTING 1**

Workshops to develop skills in writing and appraising texts for performance. A folio of work is completed and selections developed in rehearsed readings. Input from guest practitioners.

Course: AA21

Prerequisite: AAB216

Credit Points: 12

■ **AAB328 ADVANCED PLAYWRIGHTING 2**

In association with a mentor, and dramaturgical input from colleagues, students prepare a folio of text for performance and develop it to a format that could be presented for production or publication. Contacts are made with professional writers and writing contexts.

Course: AA21

Prerequisite: AAB327

Credit Points: 12

■ **AAB329 INDEPENDENT STUDY: DRAMA**

Students devise an outline of study and/or action after negotiation and consultation with lecturing staff and carry out the approved program with regular tutorial consultation. This unit is available for advanced work in design, directing or playwriting.

Course: AA21

Credit Points: 24

■ **AAB410 ART CURRICULUM DESIGN & DEVELOPMENT**

Major art curriculum approaches as found in the literature and a variety of art syllabus support documents. Analysis of art curriculum planning models; design and development of art programs for schools; production of art resources to support curriculum.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **AAB411 DRAMA ACROSS THE CURRICULUM**

Process models of drama applied to curriculum; drama methods, dramatic contexts and power in the classroom; content analysis and planning; implementation of lesson sequence based on dramatic action; preparation of curriculum materials. Compulsory study school for external students.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **AAB412 ART CURRICULUM STUDIES 1**

Students develop planning and teaching skills in selected curriculum areas. Content includes: the nature of the curriculum area/discipline; its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50, ED54

Prerequisites: 48 Credit points in each relevant discipline area.

Credit Points: 12 Contact Hours: 3 per week

■ **AAB413 ART CURRICULUM STUDIES 2**

Extends upon AAB412; curriculum development within the context of contemporary policies, frameworks and agencies; principles of measurement, assessment and evaluation; teaching and learning strategies; directions in curriculum development.

Course: ED50, ED54

Prerequisite: AAB412

Credit Points: 12 Contact Hours: 3 per week

■ **AAB414 DRAMA CURRICULUM STUDIES 1**

Students develop planning and teaching skills in selected curriculum areas; the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50, ED54

Prerequisites: 48 Credit points in each relevant discipline area.

Credit Points: 12 Contact Hours: 3 per week

■ **AAB415 DRAMA CURRICULUM STUDIES 2**

Extends on AAB414; curriculum development within the context of contemporary policies, frameworks and agencies; principles of measurement, assessment and evaluation; teaching and learning strategies; directions in curriculum development.

Course: ED50, ED54

Prerequisite: AAB414

Credit Points: 12 Contact Hours: 3 per week

■ AAB421 FOUNDATION ART STUDIES

Participation in the process of solving broad ranging visual problems through developing ideas, recording information and forming solutions to visual problems; seeks to develop genuine enquiry and the attainment of appropriate levels of competence of techniques, materials and resources to bring ideas to fruition.

Course: ED50

Credit Points: 12 Contact Hours: 4 per week

■ AAB444 VISUAL ARTS OF ASIA

As a reflection of the maker's culture, the visual arts of Asia provides one means of understanding these diverse cultures. Historical backgrounds, philosophical beliefs and trade have influenced the symbolism, forms, techniques and uses of these various artefacts. Development of an understanding and awareness of non-western art forms.

Courses: AA71, ED26, ED50

Credit Points: 12 Contact Hours: 3 per week

■ AAB447 DRAWING

Examination of established systems of drawing by historical reference and exploration of materials; methods by which shape and volume can be determined by drawing techniques; the line as a means of expression and communication; methods and techniques for creating solid form by the use of various media; perspective; rendering; perceptual organisation and expressive effects; use of drawing for teachers who require visual expression and delineation within their areas.

Courses: AA71, ED22, ED26, ED50

Credit Points: 12 Contact Hours: 3 per week

■ AAB449 EDUCATIONAL DRAMA

Practical introduction to educational drama techniques: teacher-in-role, enrolment of students, dramatic exercises, analogies, simulations; fieldwork project; planning, teaching and evaluating a simple program. Incompatible with tertiary studies in drama or substantial experience in teaching drama.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ AAB455 COMPUTER GRAPHICS 1

An introduction to 2D and 3D image generation, manipulation and output through the critical study of systems, software, procedures and applications. Students develop a core understanding of the current characteristics and potentialities embedded in the technology.

Courses: AA71, ED22, ED26, ED5

Credit Points: 12 Contact Hours: 3 per week

■ AAB457 SCULPTURE 1

Students will be expected to observe, question and explore issues to reach solutions that will reflect an individual imagination. Knowledge and skills that apply to sculpture will be pursued.

Courses: AA71, ED22, ED26, ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

■ AAB459 VISUAL ARTS DESIGN 1

The fundamentals of design thinking and practice; undertaking of projects within and outside the studio to provide understanding of the relationship between the historical, cultural, aesthetic and productive aspects of design strategies and applications; development of a personal philosophical basis for design practice; professional attitudes and innovative and reflective thinking; research into the knowledge and resources available to design practice.

Course: ED50, ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ AAB460 VISUAL ARTS DESIGN 2

Advanced exploration of design thinking and practice. Undertaking of selected projects enhancing core understandings and enabling the student to develop specialist knowledge and understanding in an elected domain of design practice.

Course: ED50, ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ AAB505 ENSEMBLE STUDIES C3

Group tuition on an orchestral instrument; further development of performing technique. Directed ensemble activities: membership of instrumental or vocal ensemble, and one other elective ensemble.

Course: AA51

Credit Points: 12 Contact Hours: 6 per week

■ AAB514 MUSIC STUDIES 3

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition; advanced conducting; introduction to non-western music; professional studies.

Course: AA51

Credit Points: 8 Contact Hours: 2-4 per week

■ AAB515 MUSIC STUDIES 4

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition; advanced arranging; introduction to non-western music; independent study; studio music teaching.

Course: AA51

Credit Points: 8 Contact Hours: 2-4 per week

■ AAB520 LITERATURE & ANALYSIS OF MUSIC 3

Romantic and impressionist music; development of research and analytical skills; forms studied include: the lied, symphony, orchestral music, instrumental and keyboard music, and music drama.

Course: AA51

Credit Points: 8 Prerequisite: AAB519 Contact Hours: 4 per week

■ AAB521 MUSIC ELECTIVE 1

Development of special skills and knowledge of the following: choral arranging and conducting; instrumental arranging and conducting; introduction to non-western music.

Course: AA51

Credit Points: 12

■ AAB522 MUSIC ELECTIVE 2

Development of special skills and knowledge of the following: choral arranging and conducting, instrumental arranging and conducting, introduction to non-western music.

Course: AA51

Credit Points: 12

■ AAB523 MUSIC ELECTIVE 3

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition, advanced conducting, introduction to non-western music, studio recording techniques.

Course: AA51

Credit Points: 12

■ AAB524 MUSIC ELECTIVE 4

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition; advanced arranging; introduction to non-western music; independent study; studio music teaching.

Course: AA51

Credit Points: 12

■ AAB525 MUSIC ELECTIVE 5

Development of special skills and knowledge in one of

the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition, advanced conducting, introduction to non-western music, studio recording techniques.

Course: AA51 Credit Points: 12

■ AAB526 MUSIC ELECTIVE 6

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition; advanced arranging; introduction to non-western music; independent study; studio music teaching.

Course: AA51 Credit Points: 12

■ AAB527 AURAL MUSICIANSHIP 1

Training the ear to recognise and notate intervals, diatonic chords, imitative and sequential passages in diatonic music. Recognition and notation of complex rhythms. Development of skills in sight-singing in monophonic, homophonic and contrapuntal textures.

Course: AA51

Credit Points: 12 Contact Hours: 2 per week

■ AAB528 WRITTEN MUSICIANSHIP 1

Harmonic and melodic writing techniques of the Baroque and Classical periods, with primary emphasis on diatonic harmony including figured bass, chorale harmonisation and harmonising of given melodies. Techniques of modulation, contrapuntal devices.

Course: AA51

Credit Points: 12 Contact Hours: 2 per week

■ AAB554 POPULAR MUSIC COMPOSITION 4

Continued use of MIDI systems in a personal composition project, focusing on multimedia presentational forms; time management and collaborative work; live performance project.

Course: AA51

Prerequisite: AAB553
Credit Points: 12 Contact Hours: 3 per week

■ AAB556 PROFESSIONAL STUDIES

Music and Australian society; different manifestations of music: professional, amateur, community; historical patterns; music technology as an industry; pathways to established and new careers in music.

Course: AA51

Prerequisite: AAB051
Credit Points: 12 Contact Hours: 2 per week

■ AAB561 PRACTICAL STUDIES A1

Development of strong and reliable technique, interpretation and performance skills on the chief practical instrument or voice; performance seminar; participation in a directed ensemble. Improvisation (Jazz & Popular Music strand only).

Course: AA51

Credit Points: 12 Contact Hours: 6 per week

■ AAB562 PRACTICAL STUDIES A2

Designated Unit. Continuation of AAB561 with added emphasis on interpretation, analysis and appropriate public presentation in performance. Improvisation (Jazz & Popular Music strand only).

Course: AA51

Prerequisite: AAB561
Credit Points: 12 Contact Hours: 6 per week

■ AAB566 PRACTICAL STUDIES B1

Membership of performing ensembles. Keyboard musicianship: students with limited keyboard facility undertake weekly individual tutorials designed to improve personal capabilities on keyboard. Group Second Study: students exempted from keyboard musicianship may undertake studies on a second instrument or voice in a small group tutorial situation.

Course: AA51

Credit Points: 12 Contact Hours: 5-6 per week

■ AAB567 PRACTICAL STUDIES B2

Membership of two performing ensembles. Keyboard musicianship: students requiring further development of their facility on keyboard undertake weekly individual tutorials designed to reach an acceptable exit level on keyboard at the end of first year. Group Second Study: students exempted from further studies in keyboard musicianship may undertake new or continuing studies in a second instrument or voice in small group tutorials.

Course: AA51

Prerequisite: AAB566
Credit Points: 12 Contact Hours: 5-6 per week

■ AAB569 COMPOSITION & TECHNOLOGY 1

Introduction to music computers, synthesisers, MIDI sequencing, music publishing and keyboard musicianship on midi keyboard.

Course: AA51

Credit Points: 12 Contact Hours: 3 per week

■ AAB570 COMPOSITION & TECHNOLOGY 2

Introduction to the principles and practices of popular song composition and arrangement and norms of the genre. Continuation of keyboard musicianship and advanced music publishing.

Course: AA51

Prerequisite: AAB569
Credit Points: 12 Contact Hours: 3 per week

■ AAB571 PRACTICAL STUDIES A3

Designated Unit. The study of a range of solo repertoire on a chief practical instrument or voice; repertoire is chosen appropriate to students' developing technical and interpretative skills, and encompasses a variety of styles and/or periods of music; performance seminar; participation in rehearsals and concerts in a directed ensemble.

Course: AA51

Prerequisite: AAB562
Credit Points: 24 Contact Hours: 6 per week

■ AAB572 PRACTICAL STUDIES A4

Designated Unit. Consolidation and extension of studies in AAB571 leading to a solo public recital in Semester 2. Performance seminar, concert attendance and directed ensemble.

Course: AA51

Prerequisite: AAB571
Credit Points: 24 Contact Hours: 6 per week

■ AAB573 AURAL & WRITTEN MUSICIANSHIP 3

Aural perception: auditory memorisation, sight singing and playing of diatonic and chromatic melodies; chord sequence recognition. Written musicianship: diatonic and chromatic harmony; nineteenth- and early twentieth century writing techniques.

Course: AA51

Prerequisite: AAB564
Credit Points: 12 Contact Hours: 4 per week

■ AAB574 AURAL & WRITTEN MUSICIANSHIP 4

Continuation of AAB573, with emphasis on complex chromatic harmony and twentieth century writing techniques.

Course: AA51

Prerequisite: AAB573
Credit Points: 12 Contact Hours: 4 per week

■ AAB575 MUSIC FROM 1600-1750

Music from the late Renaissance to early Classical periods; development of research and analysis skills; special emphasis on fugue, binary, ritornello and sonata forms of the period.

Course: AA51

Credit Points: 12 Contact Hours: 4 per week

■ AAB576 MUSIC FROM 1750-1900

Classical and Romantic music including symphony

concerto, sonata, orchestral music; instrumental and vocal music of the period.

Course: AA51

Credit Points: 12 Contact Hours: 4 per week

■ AAB577 TWENTIETH-CENTURY MUSIC 1

A detailed study of the history and literature of jazz and popular music together with associated writing techniques in a range of selected styles.

Course: AA51

Credit Points: 12 Contact Hours: 4 per week

■ AAB578 TWENTIETH-CENTURY MUSIC 2

A detailed study of Western music history and literature encompassing the period 1950 to the present day.

Course: AA51

Credit Points: 12 Contact Hours: 3 per week

■ AAB579 PRACTICAL STUDIES B3

Group tuition on an orchestral instrument as a second study; development of performing technique; membership of ensembles appropriate to the instrumental or vocal skills of the student.

Course: AA51

Prerequisite: AAB567

Credit Points: 12 Contact Hours: 5-6 per week

■ AAB580 PRACTICAL STUDIES B4

Continuation of AAB579.

Course: AA51

Prerequisite: AAB579

Credit Points: 12 Contact Hours: 5-6 per week

■ AAB581 PRACTICAL STUDIES B5

Group tuition on an orchestral instrument, piano or voice, as a second study; development of performing technique; members of two ensembles appropriate to the instrumental or vocal skills of the student.

Course: AA51

Prerequisite: AAB580

Credit Points: 12 Contact Hours: 5-6 per week

■ AAB582 PRACTICAL STUDIES B6

Continuation of AAB581

Course: AA51

Prerequisite: AAB581

Credit Points: 12 Contact Hours: 5-6 per week

■ AAB583 COMPOSITION & TECHNOLOGY 3

Composing techniques for film, television and the media using MIDI systems and computer/video time-code formats, including semiotic analysis of music for film.

Course: AA51

Prerequisite: AAB570

Credit Points: 12 Contact Hours: 3 per week

■ AAB584 COMPOSITION & TECHNOLOGY 4

Continuation of AAB583, with emphasis on the production of broadcast quality material for the audio and visual music/entertainment industry.

Course: AA51

Prerequisite: AAB583

Credit Points: 12 Contact Hours: 3 per week

■ AAB585 COMPOSITION & TECHNOLOGY 5

Examination of compositional techniques including algorithmic composition and timbral collage. Exploration of digital sampling techniques and signal processing and their applications to contemporary compositional forms.

Course: AA51

Prerequisite: AAB584

Credit Points: 12 Contact Hours: 3 per week

■ AAB586 COMPOSITION & TECHNOLOGY 6

Individual composition project (in consultation with the lecturer) with a view to presenting a multi-media performance piece utilising live and pre-recorded computer-based performance in concert.

Course: AA51

Prerequisite: AAB585

Credit Points: 12 Contact Hours: 3 per week

■ AAB587 MUSIC IN WESTERN CIVILISATION

The place of music in Western civilisation from the beginnings of polyphony to the present day. Survey of music repertoire, styles and forms with emphasis on established masterworks from the repertoire.

Course: AA51

Credit Points: 12 Contact Hours: 4 per week

■ AAB700 FOUNDATION MEDIA STUDIES 1

Designated Unit. Familiarisation with resources available within and outside the University: exhibition spaces, working environments, institutions, art-making facilities, printed and visual resources; individual and group projects introducing a variety of visual art problems.

Course: AA71

Credit Points: 24 Contact Hours: 12 per week

■ AAB701 THE MAKING OF MODERNISM

The birth of modern art from French Impressionism to the eve of the World War 2; the major movements and their theoretical underpinnings.

Courses: AA71, ED50

Credit Points: 12 Contact Hours: 4 per week

■ AAB703 FOUNDATION MEDIA STUDIES 2

Designated Unit. Development of a visual dialogue through a series of projects within and outside the studio with a view to understanding relationships between the theoretical and practical aspects of art and developing a philosophical basis for professional attitudes and original thinking; research into the knowledge and resources available; development of the ability to evaluate aesthetic qualities in the student's own work.

Course: AA71

Prerequisite: AAB702

Credit Points: 24 Contact Hours: 12 per week

■ AAB704 ART SINCE 1945

Major developments in the visual arts since 1945 with a particular examination of post-modernism; the role of the artist in contemporary society; the role of the media/art critic in shaping contemporary art practice.

Courses: AA71, ED50

Credit Points: 12 Contact Hours: 3 per week

■ AAB705 PRACTICUM 1

Four weeks work experience in visual arts related locations such as public and commercial galleries, conservation, State Library, Queensland Museum.

Course: AA71

Credit Points: 12

■ AAB706 PRACTICUM 2

Shared responsibility by graduating students for all aspects of their graduation exhibition.

Course: AA71

Credit Points: 12

■ AAB707 ADVANCED MEDIA STUDIES 1

Designated Unit. Students are expected to research their own personal directions, formulate and develop self-generated enquiry and demonstrate the acquisition of working methods, skills and knowledge required for the successful realisation of their concepts. Students present a program to the Course coordinator which indicates specific studies in the two-dimensional or three-dimensional areas or a combination of these.

Course: AA71

Prerequisite: AAB703

Credit Points: 24 Contact Hours: 12 per week

■ AAB708 ADVANCED MEDIA STUDIES 2

Designated Unit. Students present a plan of studies based on their own specific interest; rigorous questioning of concept and artefact is required with the level of realisation and the ways in which media are used reflecting a high level of achievement. Further workshops in areas where the acquisition of skills is essential.

Course: AA71 **Prerequisite:** AAB707
Credit Points: 24 **Contact Hours:** 12 per week

■ **AAB709 ADVANCED MEDIA STUDIES 3**

Designated Unit. Students are expected to work independently demonstrating sound habits of research and sustained studio practice; skills developed in AAB703 and AAB707 should enable concepts to be expressed with confidence; intensive studio work to draw together the students' interest in the visual arts in general and their specific study in particular.

Course: AA71 **Prerequisite:** AAB708
Credit Points: 24 **Contact Hours:** 12 per week

■ **AAB710 ADVANCED MEDIA STUDIES 4**

Designated Unit. Independent work in preparation for an exhibition.

Course: AA71 **Prerequisite:** AAB709
Credit Points: 24 **Contact Hours:** 12 per week

■ **AAB711 AUSTRALIAN ART**

Development of Australian art since its human settlement 40,000 years ago; the visual arts since European settlement, contemporary Western and Aboriginal art.

Courses: AA71, ED26, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB712 CONTEMPORARY ART ISSUES**

Current practices in the visual arts are addressed by analysing and interpreting original works on exhibition, in stockrooms and in studios. By means of lectures, discussions and analysis of artworks and readings, the individual's awareness of the conceptual, historical and philosophical contexts concerning artists and the artworks are heightened.

Courses: AA71, ED26, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB713 RESEARCH METHODS SEMINAR**

Training in the research and writing of a theoretical/historical dissertation. Compulsory elective for students intending to undertake Honours studies.

Course: AA71
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB714 PROFESSIONAL STUDIES**

Studio workshop management; business principles; legal principles; promotion and marketing.

Course: AA71
Credit Points: 12 **Contact Hours:** 4 per week

■ **AAB720 EXTENDED MEDIA STUDY 1**

Extension of practical studio units of core media studies or elective studio units. (Note: contract approval by the unit coordinator is required.)

Courses: AA71, ED22, ED26, ED50, ED51, ED52
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB721 EXTENDED MEDIA STUDY 2**

Extension of practical studio units of core media studies or elective studio units.

Course: AA71, ED22, ED26, ED50
Prerequisite: AAB720
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB722 EXTENDED MEDIA STUDY 3**

Extension of practical studio units or core media studies or elective studio units.

Course: AA71 **Prerequisite:** AAB721
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB724 RENAISSANCE STUDIES**

An investigation of aspects of western European art between 1300 and 1600. Topics include the historiography of the Renaissance, art and humanism, the development of perspective, iconography, patron-

age, portraiture, the status of the artist. These topics are considered through a study of painting, sculpture, architecture and appropriate literary sources.

Courses: AA71, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB726 INTRODUCTION TO ART HISTORY**

The theories and methods of art history; the processes of art production and exhibition; views of art, historical interpretations and contemporary theories about art as cultural codes and semiotics.

Courses: AA71, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB727 ABORIGINAL ART**

A study of the traditional ways in which Aboriginal artists evoke their understanding of the universe and its foundation in the dreaming; their relationship to land, places, animals and other people, the meaning of their art and beliefs in contemporary society.

Course: AA71
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB728 SPECIAL TOPICS IN ART THEORY**

Topical investigation into the social, cultural and philosophical attitudes and influences of art.

Course: AA71
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB729 SIGNS & MEANINGS 2**

The development of the concept of the sign from structural to post-structural discourses, with an emphasis on the relationship between systems of discourse and aesthetic activity from the various positions of critical theory.

Course: AA71 **Prerequisite:** AAB052
Credit Points: 12 **Contact Hours:** 3 per week

■ **AAB730 CERAMIC MATERIALS IN A CONTEMPORARY CONTEXT**

Investigation of the aesthetic qualities of ceramic materials, processes and products; development of an understanding and appreciation of the role of ceramic materials in contemporary artistic and design practice. Emphasis will be placed on artistic decision-making skills appropriate to these processes.

Course: AA71
Credit Points: 12 **Contact Hours:** 2 per week

■ **AAB731 INTRODUCTION TO DRAWING: LOOKING INTO SEEING**

An investigation into ways of thinking and drawing. A transition from looking to seeing. Different materials and methods are utilised to assist students to develop observational skills in describing phenomena through the multi-faceted activity of drawing. Where appropriate, experimentation and risk-taking will be encouraged.

Course: AA71
Credit Points: 12 **Contact Hours:** 2 per week

■ **AAB732 COMPUTER IMAGING**

An introduction to 2D and 3D image generation, manipulation and output through the critical study of systems, software, procedures and applications. Two-dimensional imaging deals with image construction, capture and processing to meet student-determined artistic objectives such as presentation, simulation, authoring, desktop publishing, 2D animation and photo-editing. Studies in three-dimensional imaging explore construction techniques, manipulation, surface mapping, 3D animation, procedural modelling and video output.

Course: AA71
Credit Points: 12 **Contact Hours:** 2 per week

■ AAB733 MODELLING IN THREE-DIMENSIONAL SPACE

Examination of the spatial constructs and their inter-related objects with an emphasis on developing the viewer's understanding of the three-dimensional environment. Studies will be undertaken as a group and individually in various media including the drawing and rendering of form, traditional sculpture media and other experiential/temporal or time-based media.

Courses: AA71

Credit Points: 12 **Contact Hours:** 2 per week

■ AAB734 APPLIED SURFACE AND PATTERN DESIGN

The specialised discipline of putting artwork into continuous repeat for industrial production. Potential applications include wall and floor coverings, upholstery, paper products, apparel, furnishing and woven fabrics. This unit is particularly relevant to artist/designers, interior designers and architects.

Courses: AA71

Credit Points: 12 **Contact Hours:** 2 per week

■ AAB735 THE PHOTOGRAPHIC IMAGE

The application of photography as documentation and research tool, extending beyond technical processes into questions of visual decision making. The unit will incorporate studio, darkroom, laboratory and field work.

Course: AA71

Credit Points: 12 **Contact Hours:** 2 per week

■ AAB910 PERFORMING ARTS 3

The performance of a major choral work: analysis interpretation, style, techniques of conducting and rehearsing. Students select an historical topic for research and develop further techniques on composition or solo/ensemble performance.

Course: ED41

Prerequisite: AAB909

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB911 EXPLORING MUSIC 1

Aural awareness, literacy and musicianship through vocal skills both solo and ensemble.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB912 EXPLORING MUSIC 2

Instrumental music forms with emphasis on recorder ensembles as a means of developing composition and arranging skills, and an awareness of stylistic developments. Conducting, rehearsing and performing techniques will be developed.

Course: ED51

Prerequisite: AAB911

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB913 EXPLORING MUSIC 3

This unit involves a series of lectures on score reading, sight-singing, ensemble singing techniques, rehearsal and conducting skills. Aural training, music writing techniques and music technology skills are developed.

Course: ED51

Prerequisite: AAB912

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB914 VISUAL & PERFORMING ARTS CURRICULUM 1

An in-depth study of either dance and drama, music or the visual arts; the place of the arts in a balanced curriculum; defining the arts; differences and commonalities; the arts and knowledge; the arts and integration across the primary curriculum.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB915 VISUAL & PERFORMING ARTS CURRICULUM 2

An in-depth study of either dance and drama, music or

the visual arts; the place of the arts in a balanced curriculum; resourcing the arts; assessment and the arts; the arts and students with special needs; artists and education; the arts in a multicultural society.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB916 ADVANCED VISUAL & PERFORMING ARTS CURRICULUM

The curriculum of dance, drama, music or visual arts to an advanced level: designing and implementing programs in one of the disciplines for the primary school; action research in the classroom to monitor and evaluate an arts curriculum project.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB917 THE ARTS & THE WHOLE CURRICULUM

Using the arts in the primary school to integrate and synthesise cultural and historical movements, facts and values; models for planning and delivering an integrated curriculum driven by arts processes; forming multi-disciplinary teams to design, implement and evaluate a curriculum project in schools.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAB918 ARTS FOUNDATION STUDIES

Foundation experiences introducing the art forms of dance, drama, music and the visual arts; the purposes and functions of the arts in society; practical workshops in each discipline; visits to galleries and theatres in a range of community contexts.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ AAN001 ARTS RESEARCH METHODS 1

Research in the arts; defining the research tradition; qualitative research; emerging arts research processes; reporting of research findings.

Course: AT22

Credit Points: 12 **Contact Hours:** 3 per week

■ AAN002 ARTS RESEARCH METHODS 2

An application of the understandings gained in AAN001 to a selected area. Normally, the student will produce an interpretive analysis in a written presentation of 5,000 words.

Course: AT22

Credit Points: 12 **Contact Hours:** 3 per week

■ AAN003 AESTHETIC CODES IN CONTEMPORARY SOCIETY

Theories of art within the discipline of aesthetics. Five key questions are addressed, against a background of contemporary western society.

Courses: AA24, AA40, AT22

Credit Points: 12 **Contact Hours:** 3 per week

■ AAN004 GRADUATE SEMINAR

A seminar series for Honours and Masters students involving presentations by guests; in addition, staff discuss current research interests, and students report on issues arising in their own thesis work.

Courses: AA40, AT22

Credit Points: 12 **Contact Hours:** 3 per week

■ AAN005 ADVANCED ARTS PROJECT

This unit may be preparatory to the major research project of the Masters Course. The project may be articulated with the final major project, in order to establish the initial framework of the major project, and involve technical and conceptual guidance from the relevant supervisor as required. Length of written

presentation (or alternative format) to be determined in consultation with the supervisor.

Course: AT22 Credit Points: 24

■ AAN006 INDEPENDENT STUDY

Independent work of an artistic or scholarly nature which is of limited scope compared with the research project. The student devises an outline of study and/or action in consultation with a staff supervisor. Artistic outcomes would normally be expected to be to the standard of public showing. Written presentation requires a minimum of 6,000 - 10,000 words, or equivalent if other media/reportage is used.

Course: AA40 Credit Points: 12

■ AAN011 ADVANCED PROFESSIONAL PRACTICE 1

An investigation of the student's professional practice through observation and research in consultation with supervisor.

Course: AA24 Credit Points: 12

■ AAN012 ADVANCED PROFESSIONAL PRACTICE 2

Extension and elaboration of student's professional practice through evaluation and analysis in consultation with supervisor.

Course: AA24 Credit Points: 12

■ AAN013 ADVANCED PROFESSIONAL PRACTICE 3

A significant artistic outcome as part of student's skills development including research, rehearsal and preparation for an exhibition or performance.

Course: AA24 Credit Points: 24

■ AAN101 ADVANCED DANCE ANALYSIS

Students make an in-depth study of the life and work of a chosen choreographer.

Course: AT22 Credit Points: 12 Contact Hours: 3 per week

■ AAN102 ADVANCED COMPOSITION

The links between technology and dance in the areas of light and sound; the principle elements of dance design. Students are expected to implement a major individual project that involves the application and integration of a range of technological devices/processes.

Course: AT22 Credit Points: 12 Contact Hours: 3 per week

■ AAN200 DRAMATURGY

Students investigate the roles of dramaturgy in western theatre. Major practical exercise as production dramaturg on a current production.

Course: AA40 Credit Points: 12 Contact Hours: 3 per week

■ AAN201 CONTEMPORARY AUSTRALIAN PLAYWRIGHTS

Students study a number of current Australian playwrights; seminar papers focus on each writer, with input from directors, actors and writers.

Course: AA40 Credit Points: 12 Contact Hours: 3 per week

■ AAN202 TEXTUAL ANALYSIS

Students apply analytical frameworks to dramatic texts. This includes: interaction of various codes within a dramatic text, historical and cultural factors, additional codes operating in a film version of a play text, and the semiotic codes in dramatic performance.

Course: AA40 Credit Points: 12 Contact Hours: 3 per week

■ AAN203 DRAMA AS SOCIAL ACTION

A range of theories of cultural production; the interpretation of meanings from a dramatic art work; works

of leading theatre directors, playwrights and companies are viewed and analysed to determine their aesthetic, moral and cognitive value; links with political values.

Course: AT22

Credit Points: 12 Contact Hours: 3 per week

■ AAN204 DRAMA & THE NATURE OF LEARNING

Cross-discipline studies from education, developmental psychology, philosophy and theatre; the place of creativity in art and learning.

Course: AT22

Credit Points: 12 Contact Hours: 3 per week

■ AAN205 EPISTEMOLOGICAL FOUNDATIONS OF DRAMA

A re-evaluation of the origins and foundations of educational drama; drama and the new education movement; progressive education and modernism in art; learning through drama; towards an enabling drama aesthetic.

Course: AT22

Credit Points: 12 Contact Hours: 3 per week

■ AAN501 MUSIC HISTORY, LITERATURE & ANALYSIS

Study of the history and stylistic development of romantic and impressionist music in its social and cultural context; analytical studies (dealing particularly with stylistic characteristics and compositional processes) of a range of representative works.

Course: AT22

Credit Points: 12 Contact Hours: 3 per week

■ AAN502 INSTRUMENTAL ARRANGING

Development of arranging skills, using music of various styles; theory of arranging; practical arranging (small group); arrangement performance for large group (orchestra or band).

Course: AT22

Credit Points: 12 Contact Hours: 3 per week

■ AAN700 CONTEMPORARY DEBATES ON THE NATURE OF ART

Contemporary trends in the visual arts, nationally or internationally. The effect of the information revolution, technology and changing modes of world government and their economic/marketing implications. The relationship between modernism and post-modernism. The development of new conventions and values. A broad sense of post-structuralist critical tools employed in visual analysis.

Course: AA40

Credit Points: 12 Contact Hours: 3 per week

■ AAP421 DANCE CURRICULUM STUDIES 1

Provides a theoretical context and considers practical applications in curriculum planning and teaching and learning strategies; examines the roles of the teacher in the community and the profession.

Course: ED32, ED37

Prerequisite: AAP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP422 DRAMA CURRICULUM STUDIES 1

See AAP421.

Course: ED32, ED37

Prerequisite: AAP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP423 MUSIC CURRICULUM STUDIES 1

See AAP421.

Course: ED32, ED37

Prerequisite: AAP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP424 VISUAL ARTS CURRICULUM STUDIES 1

See AAP421.

Course: ED32, ED37

Prerequisite: AAP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP429 DANCE CURRICULUM STUDIES 2

Development of understanding and skills for learning; assessment issues and techniques; philosophical concepts relevant to dance education.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ AAP430 DRAMA CURRICULUM STUDIES 2

Advanced practical applications in assessment, curriculum planning and teaching/learning strategies in the relevant visual and performing arts area.

Course: ED32, ED37

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP431 MUSIC CURRICULUM STUDIES 2

See AAP430.

Course: ED32, ED37

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP432 VISUAL ARTS CURRICULUM STUDIES 2

See AAP430.

Course: ED32, ED37

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

■ AAP433 MUSIC CURRICULUM STUDIES 2A

Extension studies in methods of teaching and curricula relevant to specialist teachers of instrumental, secondary or primary music.

Course: ED37

Prerequisite: AAP428

Co-requisite: AAP431

Credit Points: 12 Contact Hours: 3 per week

■ AAP434 MUSIC CURRICULUM STUDIES 1A

A specialist extension study in curriculum for students planning a career as a primary, secondary or instrumental music specialist in schools; materials and appropriate methods of teaching related to music in the wider school curriculum outside the classroom.

Course: ED37

Credit Points: 12

■ AAP501 ART CURRICULUM FOUNDATIONS

The aims, content and agenda of historical and contemporary art education orientations; assumptions by movements in relation to art theories, child development, teachers' role and classroom practice; investigation of strengths and weaknesses, theory and practice and historical, social and intellectual influence on past and present art education philosophies.

Courses: ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ AAP502 ART EDUCATION PROGRAM DESIGN & PRACTICE

Design and implementation of defensible art education programs at broad and specific school levels; the learning outcomes of art activities; classroom practice and evaluation across all levels of schooling.

Courses: ED22, ED26, ED51

Prerequisite: AAP501

Credit Points: 12 Contact Hours: 3 per week

■ AAP503 CLAY MATERIALS 1

Develop ceramic knowledge, artistic concepts, and practical/technical skills; investigation of selected historical ceramic eras; understanding of the relationship between ceramics and the maker's culture; development of personal imagery and design.

Courses: ED22, ED26, ED50, ED51, AA71

Credit Points: 12 Contact Hours: 3 per week

■ AAP505 FIBRE 1

Historical and contemporary textile media; development of technical and conceptual textile knowledge; utilisation of fibre/textile materials and processes to develop both 2 and 3 Dimensional textile artefacts/objects; the relationship between textile arts and selected cultures; particularly in relation to fashion design, individual development of design, construction and decoration techniques and textile imagery.

Courses: ED22, ED26, ED50, ED51, AA71

Credit Points: 12 Contact Hours: 3 per week

■ AAP507 PAINTING 1

Introducing and developing an active awareness of both historical and contemporary issues in painting and drawing through studio practice and tutorials; the skills appropriate to the range of available media pursued in studio classes and professional practice.

Courses: ED22, ED26, ED50, ED51, AA71

Credit Points: 12 Contact Hours: 3 per week

■ AAP509 PHOTOGRAPHIC MEDIA 1

Photographic processes; aesthetic aspects of photography; history of art and photography; personal approaches to photography.

Courses: ED22, ED26, ED50, ED51, AA71

Credit Points: 12 Contact Hours: 3 per week

■ AAP511 PRINTMAKING 1

Relief printmaking: raised and incised blocks in lino; wood and glued materials; intaglio printmaking: etching, engraving, dry point and aquatint; planographic printmaking: lithography, monoprints and transfer prints; stencil printmaking: silk screening and photographic stencils; presentation of prints.

Courses: ED22, ED26, ED50, ED51, AA71

Credit Points: 12 Contact Hours: 3 per week

■ AAX101 COMPOSITION 1

Discussion and theoretical understanding of dance composition; practical exploration of skills essential for dance composition including: establishment of approach or theme, style of movement, patterning of movement, phrasing of steps, selection and structuring of completed dance segments.

Course: AA09

Credit Points: 8 Contact Hours: 2 per week

■ AAX102 DANCE COMPOSITION 2

Discussion and investigation of dance forms; preparation and presentation of short solo and group sequences; practical experience in group dance through improvisation and set compositional studies; discussion and criticism of presented dance work, discussion of criteria for evaluation and assessment of dance works. Choreography of a work for public performance.

Course: AA09, AA10

Prerequisite: AAX101

Credit Points: 8 Contact Hours: 2 per week

■ AAX103 MUSIC 1

Musical basics through aural and written theories.

Course: AA09, AA10

Credit Points: 8 Contact Hours: 1.5 per week

■ AAX104 DANCE KINESIOLOGY & ALIGNMENT

Principles governing human stability and motion; ways muscles work to produce dance movement; machines of the body; movement and dance injuries.

Course: AA09

Credit Points: 12 Contact Hours: 3.5 per week

■ AAX105 DANCE STYLES 1

Study of folk dance, tap dance and jazz dance styles.

Practical work includes: folk steps and dances from selected parts of the world; tap and jazz dance combinations and routines for performance.

Course: AA09

Credit Points: 8 Contact Hours: 2 per week

■ AAX106 DANCE STYLES 2

Development of dancing and singing skills; composition of dance routines for chorus; dramatic aspects of music comedy; tap dance combinations and routines, study of character and jazz styles; practical work includes basic technique, step combinations, solo and group choreographic work.

Course: AA09, AA10

Credit Points: 8 Contact Hours: 3 per week

■ AAX111 REPERTOIRE & PRACTICE PERIOD 1

Designated Unit. Study of selected repertoire pieces; rehearsal of individual aspects of the repertoire work; performance of all or part of the selected repertoire; preparation for rehearsals and performance; technique and dress rehearsals; critical evaluation during season and post-performance evaluation.

Course: AA09

Credit Points: 12

■ AAX112 REPERTOIRE & PRACTICE PERIOD 2

Designated Unit. Continuation of studies initiated in AAX111.

Course: AA09

Prerequisite: AAX111

Credit Points: 16

■ AAX113 REPERTOIRE & PRACTICE PERIOD 3

Designated Unit. Continuation of AAX112.

Course: AA09, AA10

Prerequisite: AAX112

Credit Points: 16

■ AAX114 REPERTOIRE & PRACTICE PERIOD 4

Designated Unit. Continuation of AAX113; preparation for the dance industry; curriculum vitae and funding applications.

Course: AA09, AA10

Prerequisite: AAX113

Credit Points: 16

■ AAX115 DANCE HISTORY

Early development of dance technique; social and religious functions of dance; dance throughout the Renaissance period; the European and Russian contribution to classical ballet; the rise of modern dance in Europe and America; dance in Australia.

Course: AA09

Credit Points: 8 Contact Hours: 1.5 per week

■ AAX116 STAGECRAFT

Basic principles of stage production including make-up, stage lighting design and operation; sound recording and operation, costuming for dance including properties of fabric design and construction.

Course: AA09, AA10

Credit Points: 8 Contact Hours: 2 per week

■ AAX117 BALLET TECHNIQUE 1

Designated Unit. The study of ballet technique within the four-tier practical levels system. Principles governing the technique; practical work includes barre work, adagio, pirouettes, allegro, pointe work and pas de deux.

Course: AA09

Credit Points: 8 Contact Hours: 9 per week

■ AAX118 BALLET TECHNIQUE 2

Designated Unit. Continuation of study initiated in AAX117.

Course: AA09

Prerequisite: AAX117

Credit Points: 8 Contact Hours: 7.5 per week

■ AAX119 BALLET TECHNIQUE 3

Designated Unit. Consolidation of technique; study of differing stylistic approaches to the ballet technique through the four-tier levels system.

Course: AA09, AA10

Prerequisite: AAX118

Credit Points: 8 Contact Hours: 9 per week

■ AAX120 BALLET TECHNIQUE 4

Designated Unit. Technique classes of advanced standard incorporating difficult exercise combinations, with an emphasis on performance quality and style within the four-tier levels system.

Course: AA09, AA10

Prerequisite: AAX119

Credit Points: 8 Contact Hours: 7.5 per week

■ AAX121 CONTEMPORARY TECHNIQUE 1

Designated Unit. The study of contemporary dance techniques within the four-tier levels system. Practical work includes floor work, centre work and basic combinations to develop flexibility, strength and coordination; vocabulary of contemporary dance techniques.

Course: AA09

Credit Points: 8

Contact Hours: 9 per week

■ AAX122 CONTEMPORARY TECHNIQUE 2

Designated Unit. Continuation of study initiated in AAX121.

Course: AA09

Prerequisite: AAX121

Credit Points: 8 Contact Hours: 7.5 per week.

■ AAX123 CONTEMPORARY TECHNIQUE 3

Designated Unit. Consolidation of technical knowledge; increased degree of difficulty in turning and jumping sequences; rapid changes of weight and off-balance work within the four-tier levels system.

Course: AA09, AA10

Prerequisite: AAX122

Credit Points: 8 Contact Hours: 7.5 per week

■ AAX124 CONTEMPORARY TECHNIQUE 4

Designated Unit. Advanced technique classes incorporating difficult exercise combinations with rapid changes of weight, level, direction; performance quality and style.

Course: AA09, AA10

Prerequisite: AAX123

Credit Points: 8 Contact Hours: 7.5 per week

■ ALB100 TAXATION DISPUTES

The increasing role played by administrative law and policy in taxation law and practice; accountants who engage in the provision of tax advice, lodgement of returns and tax planning need an understanding of the underlying principles; accordingly, the unit examines: the nature and effect of taxation policy statements and rulings; the self assessment system and the administrative appeals process; the rights of practitioners and clients in relation to audits and investigations; the Australian Taxation Office.

Course: BS50

Prerequisite: ALB122

Credit Points: 12 Contact Hours: 3 per week

■ ALB101 COMMERCIAL LAW

Commercial transactions: viz agency, bailment guarantees, cheques and other negotiable instruments, insurance and banking; aspects of partnerships and company law; especially for ED50 students.

Course: BS50, ED50

Prerequisite: ALB107

Credit Points: 12 Contact Hours: 3 per week

■ ALB103 FINANCIAL INSTITUTIONS LAW

The legal framework of banking and other financial transactions: legal constraints upon the operations of financial institutions; bank-customer relationship; Cheque Act, Credit Act, liability for negligent advice.

Course: BS50

Prerequisites: ALB110 or ALN103

Credit Points: 12 Contact Hours: 3 per week

■ ALB104 INDUSTRIAL LAW

The system of law in Australia; industrial aspects of the Australian constitution; the system of industrial law in Australia; the development and role of law in industrial relations; industrial relations legislation federal and state; common law; industrial torts; industrial actions; industrial disputes; settlement of disputes; sanctions; unions.

Course: BS50 Prerequisite: HRB131
Credit Points: 12 Contact Hours: 3 per week

■ ALB105 INTERNATIONAL BUSINESS LAW

Examination of the law governing the establishment and conduct of international business; business structures, international contracts, competing legal jurisdictions, codes of conduct; an introduction to the taxation consequences of international business.

Course: BS50 Prerequisites: ALB110 or ALN103
Credit Points: 12 Contact Hours: 3 per week

■ ALB107 LEGAL ENVIRONMENT OF BUSINESS

Consumer protection – State and Commonwealth legislation; trade regulation; restrictive trade practices; consumer credit laws; business finance options; use of a business name; choosing a business structure; establishing a business; starting, buying or franchising a business in Queensland.

Course: ED50
Credit Points: 12 Contact Hours: 3 per week

■ ALB108 PUBLIC ADMINISTRATIVE LAW

Nature and development of law; precedent; interpretation of deeds and statutes; torts; criminal law; constitutional law; foundations of administrative law; judicial review of administrative action, natural justice, ultra vires; common law remedies; legal position of the Crown and government instrumentalities; Administrative Appeals Tribunal; the Ombudsman; the Federal Court; the Judicial Review Act; freedom of information; law and reform.

Course: BS50
Credit Points: 12 Contact Hours: 3 per week

■ ALB110 BUSINESS LAW

Australian legal and constitutional system; sources of law, including doctrines and methodology of the law; statutory interpretation; a study of the law of contract; introduction to the law of torts with emphasis on the tort of negligence; aspects of consumer protection.

Courses: BS50, ED50, IF56, IT20, PU48
Credit Points: 12 Contact Hours: 3 per week

■ ALB111 COMMERCIAL & SECURITIES LAW

Commercial transactions; specific types of contract: sales of goods, credit contracts, agency, bailment and insurance; aspects of the Trade Practices Act and negotiable instruments.

Course: BS50 Prerequisites: ALB110 or ALN103
Credit Points: 12 Contact Hours: 3 per week

■ ALB120 COMPANY LAW & PRACTICE

Advanced topics in company law including: protection of minority interests; dividend policy; insider trading, takeovers and buy-backs, law relating to financially troubled companies.

Course: BS50 Prerequisite: ALB122
Credit Points: 12 Contact Hours: 3 per week

■ ALB121 INSOLVENCY LAW & PRACTICE

Insolvency and liquidation; a comparison of the tests of insolvency applicable to individuals, companies, partnerships and trusts respectively; rights of secured and unsecured creditors; duties and liabilities of liquidators, receivers, etc.; company shareholders' rights;

distribution of property; liabilities of bankrupts, trustees and company officers.

Course: BS50 Prerequisite: ALB122
Credit Points: 12 Contact Hours: 3 per week

■ ALB122 LAW OF BUSINESS ASSOCIATIONS

The law relating to the establishment, operation and dissolution of business associations; the forms of business associations; partnerships, trusts, companies and voluntary associations. A focus on companies; incorporation requirements, classification, share capital and management issues.

Courses: BS50, BS81
Prerequisites: ALB110 or ALN103
Credit Points: 12 Contact Hours: 3 per week

■ ALB130 INDIRECT TAXATION

Examination of taxes relevant to the conduct of a business other than taxes directly imposed on a taxpayer's income and capital gains. Specific taxes covered include sales tax, payroll tax, land tax, stamp duty, customs and excise duties, and the superannuation guarantee charge.

Course: BS50 Prerequisite: ALB122
Credit Points: 12 Contact Hours: 3 per week

■ ALB131 TAX PLANNING

Principles of tax practice; judicial, statutory and professional approaches to tax avoidance and evasion; structuring and restructuring business enterprises; tax planning for the employed person, current and retiring; implications of the Family Law Act.

Course: BS50 Prerequisite: ALB133
Credit Points: 12 Contact Hours: 3 per week

■ ALB132 TAXATION LAW

Statutory framework; assessable income, general and specific; capital gains; trading stock; allowable deductions, general and specific; levy of income tax; all entities; fringe benefits tax.

Courses: BS50, BS81 Prerequisite: ALB122
Credit Points: 12 Contact Hours: 3 per week

■ ALB133 TAXATION OF BUSINESS ENTITIES

Partnerships, trusts, superannuation funds and companies; concessional treatment afforded specific classes of taxpayer; international taxation; introduction to administration and avoidance provisions; introduction to business taxes which are not applied to income.

Course: BS50 Prerequisite: ALB132
Credit Points: 12 Contact Hours: 3 per week

■ ALN101 ADVANCED TAX PLANNING

Application of technical expertise in income tax and other revenue laws to specific tax planning situations including employment, retirement, investment, business and professional practice; the professional responsibilities of tax advisers.

Courses: BS70, BS87
Credit Points: 12 Contact Hours: 3 per week

■ ALN102 ADVANCED TAXATION

Analysis of the capital gains tax regime, a discrete area of taxation law that is complex in nature and has far-reaching commercial ramifications. The focus is on specific issues that have significant practical relevance.

Courses: BS70, BS87
Credit Points: 12 Contact Hours: 3 per week

■ ALN103 BUSINESS LAW & ETHICS

Introduction to business law and to morality in the business context. Interpretation of statutes, law of torts, contract law, consumer protection and the utility of

business structures; morality and how it works as an aspect of the business community; the origins of moral belief, and the motives which lead people to abide by what they believe to be morally right and to persuade others to do likewise. The functioning morality in society drawing on psychological, sociological and philosophical perspectives with special emphasis on business aspects of morality.

Courses: BS78, BS81

Credit Points: 12 Contact Hours: 3 per week

■ ALN104 COMMERCIAL LAW HONOURS

The law, policy and practice of financial disclosure; detailed examination of the rules governing the preparation and audit of financial information whether for annual accounts, experts' reports, or for use in prospectuses or take-overs. Examines the respective theories governing accountants, auditors' and directors' liabilities. Sources of law considered include the Corporations Law, the Australian Stock Exchange listing rules, accounting standards and the Common Law.

Courses: BS60, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN105 INDIRECT TAXATION

Examination of tax relevant to the conduct of a business other than taxes directly imposed on a taxpayer's income and capital gains. Specific taxes covered include sales tax, payroll tax, land tax, stamp duty, customs, excise duties and the superannuation guarantee charge.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN106 INTERNATIONAL TAXATION

Application of Australian income tax law and practice to situations and transactions with an international element; root principles of jurisdiction, residence and source; substantive taxing provisions governing residents and non-residents; tax planning arrangements and applicable anti-avoidance legislation.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN107 LIQUIDATIONS & RECEIVERSHIP

The law and practice of bankruptcy and corporate insolvency; comparisons between deeds of company arrangement, schemes of arrangement and reconstruction, receiverships and liquidation. Topics include: the rights of secured and unsecured creditors; rights of members and employees; duties and obligations of scheme administrators, receivers and liquidators; collection and distribution of assets; public examination; actions against company officers.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN110 TAXATION POLICY HONOURS

A study of the Australian taxation system as it has evolved under the policy-making powers of the Australian Government. The system is critically assessed using generally accepted criteria governing the formation of taxation policy. Detailed examination of matters on the current reform agenda.

Courses: BS60, BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN300 INSOLVENCY & RECONSTRUCTION (PY)

Examination of the law and practice of bankruptcy and corporate insolvency; comparisons between deeds of company arrangement, schemes of arrangement and reconstruction, receiverships and liquidation; the rights of secured and unsecured creditors; rights of members

and employees; duties and obligations of scheme administrators, receivers and liquidators; collection and distribution of assets; public examination; actions against company officers.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN301 TAXATION 1B (PY)

Prepares candidates enrolled in the Institute of Chartered Accountants Professional Year for the examination and workshops in the taxation module. Topics as prescribed by the Institute are covered in cursory fashion or in depth according to the particular knowledge level requirements specified.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN302 TAXATION 2 (PY)

A study program for candidates enrolled in the advanced taxation module of the Institute of Chartered Accountants Professional Year. Topics prescribed by the Institute are covered in sufficient depth to meet the requirements as specified in the module.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALN303 LEGAL ENVIRONMENT OF BUSINESS

Prepares candidates enrolled in the Institute of Chartered Accountants Professional Year for the examination and workshops in the taxation module. Topics as prescribed by the Institute are covered in cursory fashion or in depth according to the particular knowledge level requirements specified.

Courses: BS70, BS87

Credit Points: 0 Contact Hours: 3 per week

■ ALN305 TAXATION 1A (PY)

Prepares candidates enrolled in the Institute of Chartered Accountants Professional Year for the examination and workshops in the taxation module. Topics as prescribed by the Institute are covered in cursory fashion or in depth according to the particular knowledge level requirements specified.

Course: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

■ ALP101 EMPLOYMENT LAW

Understanding of institutions, doctrines and methodology of general and industrial law; analysis of employment relationships; common law contract of employment; workers' compensation; legal liability for industrial action; the structure of Federal and Queensland industrial relations laws.

Course: BS74

Credit Points: 12 Contact Hours: 3 per week

■ ALP102 AUSTRALIAN INDUSTRIAL LAW

An introduction to industrial law; detailed study of law relating to trade unions and employer organisations; current developments in industrial law.

Course: BS74

Credit Points: 12 Contact Hours: 3 per week

■ ARB001 ARCHITECTURAL DESIGN 1

Introduction to design theory and methodology; Design as an integrative process; aesthetic perceptions, graphic/presentation skills. Strategic Learning at University. Introductory design exercises: simple elements and small scale urban spaces.

Courses: AR48, BN30

Credit Points: 12 Contact Hours: 8 per week

■ ARB002 ARCHITECTURAL DESIGN 2

Development of design understanding integrating

contextual constraints and technology. Introductory design exercises: simple buildings, spaces and elements.
Courses: AR48, BN30 **Prerequisite:** ARB001
Credit Points: 12 **Contact Hours:** 8 per week

■ ARB003 ARCHITECTURAL DESIGN

Development of design understanding and ability with emphasis on social and environmental values. Theory and methodology: activity analysis, site analysis, integration of construction and climatic studies. Design projects generally of domestic scale.

Courses: AR48, BN30 **Prerequisite:** ARB002
Credit Points: 12 **Contact Hours:** 6 per week

■ ARB004 ARCHITECTURAL DESIGN 4

Development of design understanding and ability with emphasis on social and environmental values. Integration of design theory, sociological issues and technology. Design projects generally of domestic scale.

Courses: AR48, BN30 **Prerequisite:** ARB003
Credit Points: 12 **Contact Hours:** 6 per week

■ ARB005 ARCHITECTURAL DESIGN 5

Development of design understanding and ability with emphasis on 'place' and design in social and physical context. Design projects aimed at developing issues of context, landscape, ethics and values and integrating building construction, climatic design and contextual studies. Projects include groups of buildings of medium scale and increasing complexity.

Courses: AR48, BN30 **Prerequisite:** ARB004
Credit Points: 12 **Contact Hours:** 6 per week

■ ARB006 ARCHITECTURAL DESIGN 6

Development of design emphases introduced in ARB005. Design projects to develop contextual issues and integrate considerations of climatic design, construction and building services. Projects include groups of buildings of medium scale and increasing complexity.

Courses: AR48, BN30 **Prerequisite:** ARB005
Credit Points: 12 **Contact Hours:** 6 per week

■ ARB007 ARCHITECTURAL DESIGN 7

Design projects used to develop theory, critical analysis and issues of architectural quality. Integration of design science, construction, building services, codes and standards. Projects include buildings and building groups of medium to large scale.

Course: AR48 **Prerequisite:** ARB006
Credit Points: 24 **Contact Hours:** 6 per week

■ ARB008 ARCHITECTURAL DESIGN 8

Design projects used to develop individual approach and direction to architecture and to introduce urban design issues. Integration of building economics, services, technology and critical analysis. Projects include large scale civic or commercial developments in an urban context.

Course: AR48 **Prerequisite:** ARB007
Credit Points: 24 **Contact Hours:** 6 per week

■ ARB011 CONTEXTUAL STUDIES 1

Human scale, anthropometry and ergonomics. Introduction to a progressive study of architectural history. Early buildings to 19th Century.

Courses: AR48, BN30 **Prerequisite:** ARB011
Credit Points: 6 **Contact Hours:** 3 per week

■ ARB012 CONTEXTUAL STUDIES 2

Human behaviour: perceptions, learning, interpersonal communication and relationships, decision making, problem solving and stress management. Progressive study of architectural history to 19th Century.

Courses: AR48, BN30 **Prerequisite:** ARB011
Credit Points: 8 **Contact Hours:** 3 per week

■ ARB013 CONTEXTUAL STUDIES 3

Human relationships: role of social and cultural variables in human environment interactions; theory of place; behaviour settings; privacy; personal space; territoriality; environmental meaning and cognition; cognitive maps and way-finding; risk perceptions; environmental stress; environmental evaluations; participatory design processes. Architectural history of the 20th Century; the modern movement; post modern and recent. Introduction to design methodology; imagining, representing, testing, the VAST lists and an heuristic design model.

Courses: AR48, BN30 **Prerequisite:** ARB013
Credit Points: 8 **Contact Hours:** 4 per week

■ ARB014 CONTEXTUAL STUDIES 4

Human organisation, theory of formal organisations, Australian government structures, social analysis and forecasting, social interest groups. History of architecture in the 20th Century, the modern movement, post modern and recent. Theories, styles and movements in architectural history.

Courses: AR48, BN30 **Prerequisite:** ARB013
Credit Points: 8 **Contact Hours:** 4 per week

■ ARB015 CONTEXTUAL STUDIES 5

The periods of Australian architectural development and important individual architects. Urban design theory, townscape, urban spaces, city form.

Courses: AR48, BN30 **Prerequisite:** ARB015
Credit Points: 8 **Contact Hours:** 3 per week

■ ARB016 CONTEXTUAL STUDIES 6

The legal system, statutory and common law, contract and tort, acts and regulations concerning the built environment, building codes of Australia. Queensland architectural heritage and contemporary architects. Principles for the analysis of design, factors affecting quality.

Courses: AR48, BN30 **Prerequisite:** ARB015
Credit Points: 8 **Contact Hours:** 3 per week

■ ARB017 CONTEXTUAL STUDIES 7

Architectural development in the Far East, S.E. Asia, the Pacific and South America. Planning of Settlements, Indigenous architecture, materials, techniques and construction, social, cultural and other influences, modernisation, current architectural issues. Theory and methods of critical analysis, critical appraisal of major works and architects, study of ideas and aesthetics.

Courses: AR48, BN30 **Prerequisite:** ARB017
Credit Points: 6 **Contact Hours:** 2 per week

■ ARB018 CONTEXTUAL STUDIES 8

Contemporary theories of design and aesthetics; ethics in architectural practice, current issues in architecture, changing roles and attitudes, trends and opportunities.

Courses: AR48, BN30 **Prerequisite:** ARB018
Credit Points: 6 **Contact Hours:** 2 per week

■ ARB021 TECHNOLOGY AND SCIENCE 1

Introduction to architectural technology. Properties and behaviour of common building materials. Principles of physics related to building construction. Basic principles of structures.

Courses: AR48, BN30 **Prerequisite:** ARB021
Credit Points: 8 **Contact Hours:** 3 per week

■ ARB022 TECHNOLOGY AND SCIENCE 2

Principles of construction related to simple structures, construction systems, chemical properties and reaction of building materials. Introduction to computing in architecture.

Courses: AR48, BN30 **Prerequisite:** ARB021
Credit Points: 12 **Contact Hours:** 5 per week

■ ARB023 TECHNOLOGY AND SCIENCE 3

Domestic scale building construction. Principles of structures, climate and sun control.

Courses: AR48, BN30 **Prerequisite:** ARB022

Credit Points: 12 **Contact Hours:** 4 per week

■ ARB024 TECHNOLOGY AND SCIENCE 4

Domestic scale building construction, timber structural members and elements, climatic design, ventilation and airflow.

Courses: AR48, BN30 **Prerequisite:** ARB023

Credit Points: 12 **Contact Hours:** 4 per week

■ ARB025 TECHNOLOGY AND SCIENCE 5

Steel construction, structures and structural elements, stairs, medium rise construction in reinforced concrete and masonry, hydraulic services, thermal behaviour of buildings.

Courses: AR48, BN30 **Prerequisite:** ARB024

Credit Points: 12 **Contact Hours:** 6 per week

■ ARB026 TECHNOLOGY AND SCIENCE 6

Construction systems used in industrial and commercial buildings of medium to high rise. Reinforced concrete structures and structural elements. Curtain walls, acoustic and noise control. Building services and electricity, lifts, air conditioning.

Courses: AR48, BN30 **Prerequisite:** ARB025

Credit Points: 12 **Contact Hours:** 5 per week

■ ARB027 TECHNOLOGY AND SCIENCE 7

Complex construction systems, specialised structures, integration of complex services, tall buildings. Case studies of special aspects of architecture technology.

Course: AR48 **Prerequisite:** ARB026

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB031 PROFESSIONAL STUDIES 1

Building codes and regulations applied in studio exercises. Estimating, cost control, feasibility, computer software for business. Specifications: role, techniques, practical exercises.

Course: AR48 **Prerequisite:** Nil

Credit Points: 16 (8 per semester)

Contact Hours: 3 per week

■ ARB032 PROFESSIONAL STUDIES 2

Practice management, setting up a practice, office systems, marketing. Building economics, finance, cost control, risk management, QA. Building procurement systems. Professional practice, ethics, services, liability, the building contract and contract administration.

Course: AR48 **Prerequisite:** ARB031

Credit Points: 16 (8 per semester)

Contact Hours: 3 per week

■ ARB033 PROFESSIONAL STUDIES 3

Standard contracts and contract administration. Issues in the profession, changing roles, new legislation.

Course: AR48 **Prerequisite:** ARB032

Credit Points: 16 (8 per semester)

Contact Hours: 2 per week

■ ARB041 ELECTIVE 1

Elective unit drawn from an existing range of units available within the School and approved by Course Coordinator.

Course: BN30

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB042 ELECTIVE 2

Elective unit drawn from an existing range of units within the School and approved by Course Coordinator.

Course: BN30

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB043 ELECTIVE 3

Elective drawn from an existing range of units available within the Faculty of Built Environment and Engineering or another Faculty at QUT, and approved by the Course Coordinator.

Course: BN30

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB044 ELECTIVE 4

Elective drawn from an existing range of units available within the Faculty of Built Environment and Engineering or another Faculty at QUT, and approved by the Course Coordinator.

Course: BN30

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB045 ELECTIVE A

Elective unit drawn from a range presented by the School, available within the Faculty, elsewhere at QUT or external units subject to approval.

Course: AR48

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB046 ELECTIVE B

Elective unit drawn from a range presented by the School, available within the Faculty, elsewhere at QUT or external units subject to approval.

Course: AR48

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB047 ELECTIVE C

Elective unit drawn from a range available within the Faculty, subject to approval.

Course: AR48

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB051 RESEARCH METHODS

An overview of research methodology, examination of differences between research methods and products. Students will undertake a short, directed research project.

Course: AR48

Credit Points: 6 **Contact Hours:** 2 per week

■ ARB052 ARCHITECTURAL RESEARCH 1

The establishment of appropriate research methods and their development into a study proposal for an approved elected research topic. Establishment of objectives, delineation of areas, structuring research program, reading sources, analysis and preliminary conclusions, individual proposals.

Course: AR48

Credit Points: 6 **Prerequisite:** ARB051 **Contact Hours:** 2 per week

■ ARB053 ARCHITECTURAL RESEARCH 2

Continued development of approved research topic commenced in ARB052. Definition and analysis of propositions, validation by research. Research submission.

Course: AR48

Credit Points: 24 **Prerequisite:** ARB052 **Contact Hours:** 6 per week

■ ARB054 ARCHITECTURAL PROJECT

A major project selected by the student and approved by the coordinator. By the end of the semester the student should demonstrate through the project the course objectives, expressed as values and attitudes, knowledge and skills.

Course: AR48

Credit Points: 24 **Prerequisite:** ARB053 **Contact Hours:** 6 per week

■ ARB061 ARCHITECTURAL APPLICATIONS 1

Application of theory and knowledge gained in co-requisite units and development of graphic skills in studio exercise.

Course: BN30

Co-requisites: ARB001, ARB011 & ARB021

Credit Points: 12 **Contact Hours:** 4 per week

■ ARB062 ARCHITECTURAL APPLICATIONS 2

Application of theory and knowledge gained in co-requisite units and development of graphic skills in studio exercise

Course: BN30

Co-requisites: ARB002, ARB012 & ARB022

Credit Points: 8 Contact Hours: 4 per week

■ ARB063 ARCHITECTURAL APPLICATIONS 3

Application of theory to architectural problems, with emphasis on architectural technology and science. Studio exercises and site visits.

Course: BN30 Co-requisites: ARB003 & ARB023

Credit Points: 12 Contact Hours: 4 per week

■ ARB064 ARCHITECTURAL APPLICATIONS 4

Application of theory to architectural problems, with emphasis on architectural technology and science. Studio exercises and site visits.

Course: BN30 Co-requisites: ARB004 & ARB024

Credit Points: 8 Contact Hours: 4 per week

■ ARB065 ARCHITECTURAL APPLICATIONS 5

Application of theory to architectural problems, with emphasis on architectural technology and science. Studio exercises and site visits.

Course: BN30 Co-requisite: ARB025

Credit Points: 12 Contact Hours: 4 per week

■ ARB066 ARCHITECTURAL APPLICATIONS 6

Application of theory to architectural problems, with emphasis on architectural technology and science. Studio exercises and site visits.

Course: BN30 Co-requisite: ARB025

Credit Points: 8 Contact Hours: 4 per week

■ ARB071 ENVIRONMENTAL STUDIES

The global ecosystem: the atmosphere and its processes, climate, air pollution, water cycles, water pollution, human population and demographic trends, renewable and non-renewable resources, land use, urbanism, the city as an ecosystem, national resource management and conservation.

Course: BN30

Credit Points: 6 Contact Hours: 2 per week

■ ARB140 INTRODUCTORY DESIGN 1

Mechanical drawing techniques; topics include: contour, texture and tone; depth perception, optical illusions and the principles of perspective; techniques of perspective drawing; the organisation of the visual field and the gestalt 'laws of pragnanz'; pattern in two and three dimensions; visual interest and attention; visual dynamics; principles of scale drawing.

Course: BN30

Credit Points: 16 Contact Hours: 8 per week

■ ARB141 THE HUMAN ENVIRONMENT 1

The dimensions and movement of the human body, and of its perceptual systems, as an essential preliminary to the design of all artefacts for human use. Topics include: static and dynamic anthropometry; human sensory systems; ergonomics; applications of anthropometrics and ergonomics to design.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB146 INTRODUCTION TO INTERIOR TECHNOLOGY 1

Basic mechanics and the physical, thermal, and optical properties of materials; physics of light, optics,

photometry, laser, holograms; thermal properties of materials and components; solar energy and its application; physics of sound, hearing, and environmental acoustics; electricity and electrical circuits.

Course: BN30

Credit Points: 6 Contact Hours: 2 per week

■ ARB147 HISTORY OF THE BUILT ENVIRONMENT 1

See PSB016.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

■ ARB151 DESIGN TECHNOLOGY & SOCIETY

Applied technologies and how they relate to industrial products and systems. Topics include: social and technological change in an historical context; the industrial society and the role of the designer; new technologies and social change; appropriate technologies and their implication design.

Course: BN30

Credit Points: 2 Contact Hours: 1 per week

■ ARB161 LIGHT & COLOUR STUDIES

Colour vision, colour harmony and contrast, mixing and the application of colour, examination of a range of contemporary theories relating to the use of colour in design; and introduction to the study of the qualitative effects of lighting on form and colour in interiors. The physiological-psychological basis for colour relations and the range of techniques used to apply these theories in the design professions.

Course: BN30

Credit Points: 8 Co-requisite: ARB140

Contact Hours: 3 per week

■ ARB185 TECHNOLOGY 2

Promote understanding and development of a basic knowledge of construction principles; building as a system; loads on buildings; performance of structural units; load bearing and skeletal construction systems.

Course: AR48

Credit Points: 6 Contact Hours: 3 per week

■ ARB191 THE HUMAN ENVIRONMENT 1

The dimensions and movement of the human body as a perpetual system for human use; static and dynamic anthropometry; human sensory systems; introduction to ergonomics; applications of anthropometrics and ergonomics to design.

Courses: AR41, AR48, BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB192 THE HUMAN ENVIRONMENT 2

Human needs and the influence of selected interpersonal and physical variables on human behaviour; the characteristics and dynamics of group behaviour, communication process types, and networks; concepts of power, leadership and conflict; observations of behaviour, research methods, interpretation and presentation of research; environmental stressors and their mediation by individual differences.

Courses: AR41, AR48

Credit Points: 4 Contact Hours: 2 per week

■ ARB193 DESIGN 1

Design theory: design definition; perception; elements and principles of design; effects of colour, texture, contour, pattern; human dimensions; anthropometrics, elements of aesthetics. Graphics: descriptive geometry; architectural graphics and rendering; freehand drawing and sketching. Design projects: two-dimensional and three-dimensional objects; personal working and living space.

Course: AR41

Credit Points: 8 Contact Hours: 5 per week

■ ARB194 DESIGN 2

See ARB193.

Course: AR41

Credit Points: 14 Contact Hours: 7 per week

■ ARB195 TECHNOLOGY 1

Materials: manufacture, supply, storage and application in buildings of timber and wood products, paints and clay products, concrete, ferrous and non-ferrous metals, plastics. Construction: simple, single-storey buildings, footings and floors, wall and roof framing, load bearing masonry, roofing, cladding.

Courses: AR41, AR48

Credit Points: 4 Contact Hours: 2.5 per week

■ ARB196 TECHNOLOGY 2

See ARB195.

Courses: AR41, AR48

Credit Points: 6 Contact Hours: 2 per week

■ ARB197 HISTORY OF ARCHITECTURE & ART 1

The development of the artificial environment and its relationship to ideas, technology, architecture and the fine arts from the earliest times to the present.

Courses: AR41, AR48

Credit Points: 2 Contact Hours: 1 per week

■ ARB198 HISTORY OF ARCHITECTURE & ART 2

See ARB197.

Courses: AR41, AR48

Credit Points: 2 Contact Hours: 1 per week

■ ARB199 TECHNOLOGY 1

See ARB195.

Courses: AR41, BN30

Credit Points: 8 Contact Hours: 4 per week

■ ARB241 HISTORY OF THE BUILT ENVIRONMENT 2

A continuation of ARB197. History of the following from circa 1600 AD: ideas, art, and two of the following (one of which must be the student's major discipline): town and country planning, landscape architecture, architecture, interior and industrial design.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

■ ARB242 TECHNOLOGY 2

See ARB195.

Course: BN30

Credit Points: 14 Contact Hours: 5 per week

■ ARB246 INTRODUCTION TO INTERIOR TECHNOLOGY 2

Structural systems of domestic building construction; chemical characteristics of materials and finishes including timber/wood products, cement and concrete, ceramics, glass, polymers and metals; manufacturing process and performance. Measurement and recording of building spaces. Photography and photogrammetry. Application of recorded information.

Course: BN30

Co-requisite: ARB248

Credit Points: 14 Contact Hours: 5 per week

■ ARB248 INTRODUCTORY DESIGN 2

Continuation of ARB140; studio work involving three-dimensional design tasks of a variety of scales; workshop and field teaching; techniques of oral and written prevention of schemes to audience; report writing; use of English as applicable to the professional needs.

Courses: AR41, AR48, BN30

Prerequisite: ARB140

Credit Points: 18 Contact Hours: 9 per week

■ ARB249 THE HUMAN ENVIRONMENT 2

See PLB201.

Course: BN30

Credit Points: 6 Contact Hours: 2 per week

■ ARB251 ERGONOMICS FOR INDUSTRIAL DESIGNERS 1

Psychomotor skills; human information processing; human-machine interfaces; displays, controls, and tools; human-machine system properties; feedback and controls; workplace design; noise; stress; vibration; legal aspect; safety and product liability. Practical exercises in product design.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB288 DESIGN SCIENCE 2

Basic design for hot humid climates, principles governing air flow through and around buildings and space. Natural ventilation; air flow in cities. Testing of air flow through and around models. Basic design for hot arid climates and cold climates; macro and micro climatic conditions and their evaluation for design; manual and computerised climatic evaluation.

Courses: AR41, AR48, BN30

Credit Points: 2 Contact Hours: 1 per week

■ ARB289 DESIGN SCIENCE 1

The principles of science and their implications for the design of buildings and spaces; the application of these in the conceptual stages of design, laboratory tests and computer evaluations of proposals. Quantity and quality of light; day lighting in buildings; manual and computerised projection of solar shadows. Testing of models on heliodon and artificial sky.

Courses: AR41, AR48, BN30

Credit Points: 2 Contact Hours: 1 per week

■ ARB290 INTRODUCTION TO COMPUTING 2

Computer as tool for drafting; line graphics; plotting, symbol libraries; dimensioning; computer drafting and office organisation; comparison of available software packages.

Courses: AR41, AR48, BN30

Credit Points: 2 Contact Hours: 1 per week

■ ARB291 THE HUMAN ENVIRONMENT 3

The social and cultural development of Australian urban environments, local built environments; study of human functioning in urban environments, privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban environment with respect to its socio-cultural function.

Courses: AR41, AR48, BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB292 THE HUMAN ENVIRONMENT 4

The interaction of formal organisations and institutions especially the organisation of work and government and the built environment; small group theory and the effective group; work and motivation. Management style and bureaucracy, its character and influence; social analysis and social forecasting; social interest groups in a pluralist society; mechanisms and processes of compromise; Australia's government system as relating to public policy and the electoral system; modern society and the individual.

Courses: AR41, AR48, BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB293 DESIGN 3

Theory: scope of design; Reitman's State Transforma-

tion model, problem-solving methods; precedence diagrams; testing; general design heuristic; the art of design. Planning objectives and techniques, privacy and convenience, intelligibility, forms and order, history of planning techniques, the vertical dimension, safety, external constraints. Architectural projects: single-storey to low-rise buildings of domestic or semi-domestic nature. Graphics: use of media for presentation of architectural projects; use of colour, shade, shadow in architectural drawings; three-dimensional presentation and modelling.

Course: AR41 **Credit Points:** 10 **Contact Hours:** 5 per week

■ **ARB294 DESIGN 4**

See ARB293.

Course: AR41 **Credit Points:** 8 **Contact Hours:** 4 per week

■ **ARB295 BUILDING CONSTRUCTION 1**

Building construction of domestic and semi-domestic buildings with upper floors, excavation, retaining walls, culverts, site and soil investigations, footings, frames and load bearing walls, construction of low-rise buildings, roofing of medium and large spans; environmental factors, building defects and remedies.

Courses: AR41, AR48 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB296 BUILDING CONSTRUCTION 2**

See ARB295.

Courses: AR41, AR48 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB299 INTRODUCTION TO COMPUTING 1**

The computer as a tool; introduction to microcomputer hardware and software; architectural application overview, specialised graphics hardware, files, computer access and operating systems; simple computer graphics production symbols, colour control, printer control, transformation and deformation.

Courses: AR41, AR48, BN30 **Credit Points:** 2 **Contact Hours:** 1 per week

■ **ARB340 ARCHITECTURAL DESIGN 1**

Theory: concepts of design process; systematic methodology in architectural design. Studio: developing skills in site surveys, adjacency analysis, brief formation, application of architectural science; safety, comfort, construction, content, form and order.

Courses: AR48, BN30 **Prerequisite:** ARB248 **Credit Points:** 18 **Contact Hours:** 7 per week

■ **ARB341 BUILDING CONSTRUCTION 1**

Introduction to common building materials, their properties and behaviour in use; the building as a system; elements of the small building and their function in the building system. Studio work will consist of exercises in construction drawing related to the lecture topics. Lectures and studio work are complemented by site visits and workshop practice.

Course: BN30 **Credit Points:** 16 **Contact Hours:** 6 per week

■ **ARB343 VISUAL COMMUNICATION FOR ARCHITECTS 1**

Introduction to presenting architectural works using manual skills and computer techniques.

Course: BN30 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB350 INDUSTRIAL DESIGN 1**

Scope of problem solving theory; special characteristics of design problems; the task environment, design heuristics; creativity and innovation and general

psychological theories of creativity. The studio exercises to which most of the time is devoted are aimed at a range of different product designs. The complexity and depth of the design project will increase systematically according to the semester level.

Course: BN30 **Prerequisite:** ARB248 **Credit Points:** 18 **Contact Hours:** 8 per week

■ **ARB351 ERGONOMICS FOR INDUSTRIAL DESIGNERS 2**

Person-machine system models; human capabilities; hearing and signal detection theory; vision; and user modelling. Practical exercises cover application of lecture topics to product design.

Course: BN30 **Prerequisite:** ARB251 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB352 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 1**

The development of visual communication techniques; introduction to rendering techniques and the use of different media including computer graphics.

Course: BN30 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB353 MANUFACTURING TECHNOLOGY 1**

Metals, glass, wood, ceramics and plastics technologies: the relation between the properties of materials and the industrial processes available for their fabrication. Application of the study of materials and their fabrication to design problems in studio exercises. Introduction of computers (CAD).

Course: BN30 **Credit Points:** 14 **Contact Hours:** 6 per week

■ **ARB354 COMPUTER-AIDED INDUSTRIAL DESIGN 1**

PC computer operation, introduction to using Windows, overview of use of graphics and CAD by industrial designers in the design process. Application of CAD for engineering drawings and as a 2D presentation tool. Introduction to 3D wireframe modelling concepts.

Course: BN30 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB360 INTERIOR DESIGN 1**

Introduction to a systematic design process related to interior design problems. Theory and studio exercises using a range of interior design problems.

Course: BN30 **Prerequisites:** ARB248, ARB140 **Co-requisite:** ARB361 **Credit Points:** 18 **Contact Hours:** 7 per week

■ **ARB361 INTERIOR TECHNOLOGY 1**

Upgrades the technical drawing skills developed in ARB261 and introduces students to the building codes and by-laws regulating the design and construction of building interiors at the domestic level; issues such as the evolution of building materials and the evaluation of material performance and suitability.

Course: BN30 **Prerequisite:** ARB246 **Co-requisite:** ARB360 **Credit Points:** 18 **Contact Hours:** 6 per week

■ **ARB362 FURNITURE & FITTINGS 1**

Fabrics and textiles in interior design; wall to wall carpeting; curtains and blinds; upholstery; in each case materials, properties and techniques are discussed; fabrics and textiles in interior design.

Course: BN30 **Credit Points:** 4 **Contact Hours:** 2 per week

■ **ARB363 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 1**

Visual thinking and drawing and basic rendering skills;

rough mock-ups and scale model making.

Course: BN30

Prerequisite: ARB248

Credit Points: 4

Contact Hours: 2 per week

■ ARB388 DESIGN SCIENCE 4

The control of noise and aural conditions in buildings; basic acoustic design and noise control in buildings. Electrical lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, external lighting.

Courses: AR41, BN30

Credit Points: 2

Contact Hours: 1 per week

■ ARB389 DESIGN SCIENCE 3

Thermal performance of buildings; energy conservation and low energy design; calculation of heat flow and indoor temperatures under steady state and fluctuating conditions; quantitative monitoring of thermal performance of building elements. Computer-aided planning analysis and environmental control analysis; integration with design.

Courses: AR41, BN30

Credit Points: 4

Contact Hours: 2 per week

■ ARB391 BUILDING SERVICES 1

Hydraulics: water; gas; plumbing; drainage and sewerage in domestic and low-rise buildings. Fire services; sprinklers; alarms; extinguishers; emergency systems.

Courses: AR41, BN30

Credit Points: 4

Contact Hours: 1.5 per week

■ ARB392 BUILDING SERVICES 2

Electricity: supply and transmission systems; substations; metering; reticulation. Vertical transportation; lifts; escalator hoists. Air-conditioning; refrigeration cycle, principles of air-conditioning, equipment components, domestic and commercial systems; approximate sizing of plant rooms and ductwork; cooling load estimate; choice of systems.

Courses: AR41, AR48, BN30

Credit Points: 3

Contact Hours: 1.5 per week

■ ARB393 DESIGN 5

Theory: the building as object, surface, volume, space and sequence; expression of building; criteria of good design in terms of style, function, form, structure, services, context, environment, society, and other relevant issues; design ethics and values. Projects: low to medium rise with emphasis on industry and commerce; integration with architectural science; flow charting; building type analysis.

Course: AR41

Credit Points: 8

Contact Hours: 4 per week

■ ARB394 DESIGN 6

See ARB393.

Course: AR41

Credit Points: 8

Contact Hours: 4 per week

■ ARB395 BUILDING CONSTRUCTION 3

Site investigations, earth and rock retaining systems, foundations including piles, bored piers and rafts, underpinning and shoring, medium-rise masonry construction, structural steel concrete and composite structures, service cores, precast concrete, prestressed concrete: systems for floors, roofs, external cladding, partitions, ceilings; waterproofing, corrosion protection, fireproofing; building failures.

Courses: AR41, AR48

Credit Points: 3

Contact Hours: 1.5 per week

■ ARB396 BUILDING CONSTRUCTION 4

See ARB395.

Courses: AR41, AR48

Credit Points: 3

Contact Hours: 1.5 per week

■ ARB440 ARCHITECTURAL DESIGN 2

Theory: concepts of design process; systematic methodology in architectural design. Studio: developing skills in site surveys, adjacency analysis, brief formation, application of architectural science to inculcate concerns for safety, comfort, construction, content, form and order.

Courses: AR41, AR48, BN30

Credit Points: 16

Contact Hours: 6 per week

■ ARB441 BUILDING CONSTRUCTION 2

Case studies with lectures and studio work. Each case study will discuss the system characteristics of the problem, the human and environmental factors involved, and the technical systems required. Lectures and studio work are complemented by field studies and workshop practice.

Course: BN30

Prerequisite: ARB341

Credit Points: 16

Contact Hours: 6 per week

■ ARB443 VISUAL COMMUNICATION FOR ARCHITECTS 2

Development of skills in various techniques for presenting architectural designs. Includes rendering and presentation techniques, audiovisual media, model making and portfolio organisation. The use of manual skills and computer techniques are studied.

Course: BN30

Credit Points: 4

Contact Hours: 2 per week

■ ARB444 ENVIRONMENTAL IMPACT

Environmental impacts related to development, production and use of consumer products, materials and processes, and environmental criteria for future product development.

Course: BN30

Credit Points: 2

Contact Hours: 1 per week

■ ARB450 INDUSTRIAL DESIGN 2

Design methodologies; process; creativity and product innovation; studio exercises are aimed at different product ranges. The complexity of the project increases according to the semester level.

Course: BN30

Prerequisite: ARB350

Credit Points: 20

Contact Hours: 6 per week

■ ARB452 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 2

The structure of presentation layouts; product graphics, including the use of computer graphics; photography; introduction to three-dimensional presentation; model making techniques.

Course: BN30

Credit Points: 4

Prerequisite: ARB352

Contact Hours: 2 per week

■ ARB453 MANUFACTURING TECHNOLOGY 2

Application of engineering mechanisms to products or systems; the performances of mechanical, electrical, hydraulic and pneumatic mechanisms in relation to particular functions; introduction to electronics; design problems in studio using CAD.

Course: BN30

Credit Points: 10

Prerequisite: ARB353

Contact Hours: 5 per week

■ ARB454 COMPUTER-AIDED INDUSTRIAL DESIGN 2

Introduction to 3D Solid modelling concepts, 3D spatial relationships, design documentation, 3D model to 2D engineering drawings and development of skills in the use of CAD for engineering drawings. Design presentation.

Course: BN30

Credit Points: 4

Prerequisite: ARB354

Contact Hours: 2 per week

■ ARB460 INTERIOR DESIGN 2

Development of the design process; furthers a systematic approach to design, encourages the application of technologies and philosophies. Studio exercises on problems with specific parameters.

Course: BN30

Prerequisite: ARB360

Co-requisite: ARB461

Credit Points: 16

Contact Hours: 7 per week

■ ARB461 INTERIOR TECHNOLOGY 2

Industrialised interior finishes and construction of joinery and fittings and their interaction with the building shell and services. The notions of interior maintenance, life span economics are introduced.

Course: BN30

Prerequisite: ARB361

Co-requisite: ARB460

Credit Points: 16

Contact Hours: 6 per week

■ ARB462 FURNITURE & FITTINGS 2

The manufacture, assembly and fabrication of furniture, fittings and components; expected performance of materials and furniture items, focuses on functional, maintenance, life span, economic properties.

Course: BN30

Prerequisite: ARB362

Credit Points: 6

Contact Hours: 2 per week

■ ARB463 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 2

The achievement of a professional standard in techniques of graphic communication whilst allowing for the development of an individual style.

Course: BN30

Prerequisite: ARB363

Credit Points: 4

Contact Hours: 2 per week

■ ARB464 ARCHITECTURAL INTERIOR SYSTEMS 1

Lighting and acoustic considerations, human sensory and behavioural needs. An outline of systems and guidelines for selection and professional judgement.

Course: BN30

Prerequisite: ARB361

Credit Points: 4

Contact Hours: 2 per week

■ ARB480 DESIGN 7

See ARB493.

Course: AR48

Credit Points: 32

Contact Hours: 5 per week

■ ARB481 PROFESSIONAL STUDIES 1

See ARB495.

Course: AR48

Credit Points: 12

Contact Hours: 3 per week

■ ARB491 HISTORY OF ARCHITECTURE & ART 3

Early Australian colonial architecture; Victorian Australia; gothic and classical revival in Australia; the Australian house; modern architecture in Australia; conservation and preservation; Australian landscape and its influence in architecture.

Courses: AR41, AR48

Credit Points: 4

Contact Hours: 1 per week

■ ARB493 DESIGN 7

Theory: masters of the twentieth century in Europe and USA; their architectural styles, design philosophies and influence; architects in Australia and their influence on Australasian architecture. Projects: brief, design, construction, services and landscape; a series of architectural projects of medium to high-rise construction; emphasis on workability and compliance with codes, by-laws and regulations.

Course: AR41

Credit Points: 20

Contact Hours: 5 per week

■ ARB495 PROFESSIONAL STUDIES 1

Specifications; estimates; cost planning and control;

codes; standards; building legislation; computing.

Course: AR41

Credit Points: 16

Contact Hours: 4 per week

■ ARB497 ADVANCED TECHNOLOGY

Mechanisation of construction; construction machinery; excavation; piling; deep basement construction; high-rise construction systems; steel, reinforced concrete and pre-stressed concrete; framing; walling and flooring. Special services: energy management and maintenance systems; automated building systems; integration of design, structures, services and construction; decision making and choice of constructional methods and procedure. Prefabrication. Case studies.

Courses: AR41, AR48

Credit Points: 8

Contact Hours: 2 per week

■ ARB540 ARCHITECTURAL DESIGN 3

Theory: the building as object, surface, volume, space and sequence; expression of buildings; criteria of good design; design ethics and values. Studio: to develop ethics in design and to apply aesthetic theories in architectural projects, a series of architectural projects of low to medium use with emphasis on industry and commerce.

Courses: AR48, BN30

Prerequisite: ARB440

Credit Points: 18

Contact Hours: 6 per week

■ ARB541 BUILDING CONSTRUCTION 3

Studies will review the construction of non-domestic buildings of intermediate size. Each case study will discuss the system characteristics of the building type, the human and environmental factors which constrain the solution, and the associated building systems. Studio work is complemented by field work.

Course: BN30

Prerequisite: ARB441

Credit Points: 17

Contact Hours: 6.5 per week

■ ARB544 LANDSCAPE ARCHITECTURE IN THE BUILT ENVIRONMENT

Principles and development of landscape architecture, application in architectural design, effect in the conservation and enhancement of the environment, landscape architect's role in architectural practice.

Courses: AR41, BN30

Credit Points: 2

Contact Hours: 1 per week

■ ARB550 INDUSTRIAL DESIGN 3

Product design in depth. The projects are cross-referenced with other subject areas which will provide an integration of knowledge and skills acquired in the previous semesters. During the design projects, different specialist expertise is included.

Course: BN30

Prerequisite: ARB450

Credit Points: 20

Contact Hours: 6 per week

■ ARB552 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 3

Organisation of visual communication media relevant to the presentation of a product; the use of graphic skills in visual analysis; advanced renderings and exploded technical renderings, and the application of computer graphics to these tasks.

Course: BN30

Prerequisite: ARB452

Credit Points: 4

Contact Hours: 2 per week

■ ARB553 MANUFACTURING TECHNOLOGY 3

Production techniques in relation to different materials, various methods for different finishing operations, various methods for forming, automatic and semi-automatic assembly and quality control methods. Field studies include visits to manufacturing industries. The application of production techniques in studio design projects using CAD.

Course: BN30

Prerequisite: ARB453

Credit Points: 8

Contact Hours: 3 per week

■ ARB554 COMPUTER-AIDED INDUSTRIAL DESIGN 3

Introduction to simple 3D Surface modelling concepts, introduction to shading, development of these skills for product form evaluations. Development of the use of 3D CAD skills for production of advanced 2D engineering drawings.

Course: BN30 Prerequisite: ARB454
Credit Points: 4 Contact Hours: 2 per week

■ ARB555 ECONOMICS OF INDUSTRIAL PRODUCTION

Commercial practice, costing production, marketing, strategic planning and capital budgeting.

Course: BN30
Credit Points: 4 Contact Hours: 2 per week

■ ARB556 PRODUCT ANALYSIS & DEVELOPMENT

Case studies on success and failure of industrial/product design; sources for new product development; system for total design product planning; product status and process of total design management.

Course: BN30
Credit Points: 4 Contact Hours: 2 per week

■ ARB560 INTERIOR DESIGN 3

A studio and workshop unit. Students develop their knowledge of systematic interior design processes and apply knowledge gained in support and co-requisite units.

Course: BN30 Prerequisite: ARB460
Co-requisite: ARB561
Credit Points: 20 Contact Hours: 6 per week

■ ARB561 INTERIOR TECHNOLOGY 3

Continuation of ARB461; emphasis on commercial construction systems and the impact of regulations; high-rise buildings, the planning of tenancies, partitioning and furniture systems, shopping centres, theatres, medical clinics, taverns, restaurants.

Course: BN30 Prerequisite: ARB461
Co-requisite: ARB560
Credit Points: 16 Contact Hours: 7 per week

■ ARB562 FURNITURE & FITTINGS 3

Principles of ornamental design; decorative metalwork; stained glass; decorative ceramics; plasterwork; carved and inlaid woodwork; lacquer work; printed fabrics and papers; tapestry and embroidery.

Course: BN30 Prerequisite: ARB462
Credit Points: 8 Contact Hours: 2 per week

■ ARB563 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 3

Visual and oral communication techniques employed in the production of design presentations to clients. The program consists of a series of studio exercises and mock-up presentations in a 'forum' environment.

Course: BN30 Prerequisite: ARB463
Credit Points: 4 Contact Hours: 2 per week

■ ARB564 ARCHITECTURAL INTERIOR SYSTEMS 2

An overview of the environmental systems used in buildings; air-conditioning and system performance, thermal and atmosphere control; the building as a comprehensive environmental system; and their impact on individual interior spaces.

Course: BN30 Prerequisite: ARB464
Credit Points: 4 Contact Hours: 2 per week

■ ARB580 DESIGN 8

See ARB593.

Course: AR48
Credit Points: 36 Contact Hours: 6 per week

■ ARB590 ELECTIVE 1A

Selected architectural topics including history, conservation, design theory, management, finance, economics, architectural science, computing, urban design, and courses where approved.

Courses: AR41, AR48
Credit Points: 4 Contact Hours: 2 per week

■ ARB591 HISTORY OF ARCHITECTURE & ART 4

A global perspective of the development of art and architecture of regional interest with particular emphasis on non-European traditions. Architectural development in the Far East, South East Asia, the Pacific, and South America. Planning of settlements, indigenous architecture, materials and techniques in building construction, social, cultural, economic, religious, and western influence. Modernisation, current architecture issues.

Courses: AR41, AR48
Credit Points: 4 Contact Hours: 1 per week

■ ARB593 DESIGN 8

Architectural criticism; main themes selected for design and the realisation, convenience, clarity, intelligibility, expression, technology, context form. Post-occupancy evaluation. Testing methodology; analysis and evaluation of building performance, user-oriented design. A series of architectural projects of medium to high-rise buildings involving general building briefs and programs, environmental impact issues, and post-occupancy analysis.

Course: AR41
Credit Points: 20 Contact Hours: 5 per week

■ ARB595 PROFESSIONAL STUDIES 2

Building economics; practice management and accounting systems; legal aspects of practice, contracts; building procurement systems.

Courses: AR41, AR48
Credit Points: 16 Contact Hours: 4 per week

■ ARB598 ELECTIVE 1B

See ARB590.

Courses: AR41, AR48
Credit Points: 4 Contact Hours: 2 per week

■ ARB640 ARCHITECTURAL DESIGN 4

Theory: the building as object, surface, volume, space and sequence; expression of buildings; criteria of good design; design ethics and values. Studio: to develop ethics in design and to apply aesthetic theories in architectural projects. A series of architectural projects of low to medium use with emphasis on industry and commerce.

Courses: AR48, BN30 Prerequisite: ARB540
Credit Points: 18 Contact Hours: 6 per week

■ ARB641 BUILDING CONSTRUCTION 4

Review the construction of non-domestic buildings of intermediate size. Each case study will discuss the system characteristics of the building type, the human and environmental factors which constrain the solution, and the associated building systems. Studio work is complemented by field work.

Course: BN30 Prerequisite: ARB541
Credit Points: 17 Contact Hours: 6.5 per week

■ ARB646 LAW OF THE BUILT ENVIRONMENT

The law as a constraint in the design and construction process. Australian and Queensland acts, by-laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land and land transfer. Introduction to professional liability, design registration, patents and copyrights.

Courses: AR41, AR48, BN30

Credit Points: 4 Contact Hours: 2 per week

■ ARB647 ARCHITECTURAL RESEARCH 2

Studies on approved topics to sufficient depth to demonstrate the student's ability to define and logically analyse proposition, and to conduct research to prove its validity.

Courses: AR41, AR48

Credit Points: 24 Contact Hours: 6 per week

■ ARB650 INDUSTRIAL DESIGN 4

Design studio projects; there are usually two projects per semester and they are done in depth. The interdisciplinary expertise is included when appropriate. Most of the projects are industry based.

Course: BN30

Prerequisite: ARB550

Credit Points: 20 Contact Hours: 6 per week

■ ARB652 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 4

Structure of professional presentation, with selection of appropriate visual communication media particularly computer graphics; advanced renderings and their application to product design concepts; professional portfolio organisation.

Course: BN30

Prerequisite: ARB552

Credit Points: 4 Contact Hours: 2 per week

■ ARB653 MANUFACTURING TECHNOLOGY 4

Organisation, planning the technologies required for CIM (Computer-integrated Manufacturing). The impact of CIM on product design solutions. Field studies complement the lecture series. Studio exercises will utilise computer applications.

Course: BN30

Prerequisite: ARB553

Credit Points: 14 Contact Hours: 5 per week

■ ARB654 COMPUTER-AIDED INDUSTRIAL DESIGN 4

Development of skills in complex 3D Surface modelling techniques, application in design form evaluations and form refinement. Further development of shading techniques and introduction to animation. Advanced design documentation.

Course: BN30

Prerequisite: ARB554

Credit Points: 6 Contact Hours: 2 per week

■ ARB660 INTERIOR DESIGN 4

Students select and develop one complex design problem from brief stage to developed design studio stage. Theory studies are cross-referenced to studio projects and exercises.

Course: BN30

Prerequisite: ARB560

Co-requisites: ARB661, ARB663

Credit Points: 18 Contact Hours: 6 per week

■ ARB661 INTERIOR TECHNOLOGY 4

The technological assessment of interiors, structure, openings, environmental systems, artefacts and ambience of existing spaces; tendering, consultants, leasing and tenancy-building interface.

Course: BN30

Prerequisite: ARB561

Co-requisite: ARB660

Credit Points: 14 Contact Hours: 6 per week

■ ARB662 FURNITURE & FITTINGS 4

The development of a methodical approach to the choice of loose furniture, furniture systems and interior products: quantitative and qualitative assessment approaches; the understanding of furniture design and its integration into interiors.

Course: BN30

Prerequisite: ARB562

Credit Points: 8 Contact Hours: 2 per week

■ ARB663 RESEARCH METHODS

An overview of research methodology; differences between various research methods and products.

Courses: AR48, BN30

Co-requisite: ARB660

Credit Points: 4

Contact Hours: 2 per week

■ ARB664 ARCHITECTURAL RESEARCH 1

Establishment of objectives; delimitation of relevant areas; structuring the research program; identification of background reading sources; analysis and preliminary conclusions regarding the proposed field of study; preparation of an individual proposal.

Courses: AR48, BN30

Credit Points: 4

Contact Hours: 2 per week

■ ARB681 PROFESSIONAL STUDIES 3

See ARB695.

Course: AR48

Credit Points: 16

Contact Hours: 2 per week

■ ARB690 ARCHITECTURAL PROJECT

See ARB693.

Course: AR48

Credit Points: 12

Contact Hours: 6 per week

■ ARB693 DESIGN 9

Theory: contemporary architects' theories and ideas, their influence in architectural design and practice. Projects: process of brief, functional and space programming; urban values, design principles and landscape-township, civic and formal planning; urban quality. A comprehensive project of groups of complex buildings as a design vehicle to develop planning skills; brief formation; building programming; quality evaluation; planning and presentation.

Course: AR41

Credit Points: 16

Contact Hours: 5 per week

■ ARB695 PROFESSIONAL STUDIES 3

Alternative methods of building procurement; management of all phases of the building project. The Architect Act 1962 and amendments; Board of Architects Queensland Practice Examination.

Course: AR41

Credit Points: 8

Contact Hours: 2 per week

■ ARB697 ELECTIVE 2

Studies on approved topics to sufficient depth to demonstrate the student's ability to define and to logically analyse proposition, and to conduct research to prove its validity.

Course: AR41

Credit Points: Semester 1: 4; Semester 2: 20

Contact Hours: Semester 1: 2; Semester 2: 5

■ ARP151 ARCHITECTURAL PRACTICE

Pre-design activities, brief formulation and evaluation; development and building approvals; programming and staffing; the documentation process; office systems; building procurement systems; contract administration; quality control; post occupancy evaluation; risk management.

Course: AR80

Credit Points: 12

Contact Hours: 2 per week

■ ARP152 ARCHITECTURAL ADMINISTRATION

Architectural practice as a small business; setting up and managing a practice; fees; personnel administration; modes of practice; the business plan; marketing architectural services; special concerns of the sole practitioner; the architect as entrepreneur; survival strategies for the future of architectural practice.

Course: AR80

Credit Points: 12

Contact Hours: 2 per week

■ ARP153 LEGAL STUDIES IN ARCHITECTURE

Contract and tort; architect's liability; building legislation update; trades practices act; intellectual property law; heritage and environment law; subcontractors changes act; workplace health and safety act; bankruptcy; company law; dispute resolution.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

■ ARP154 ARCHITECTURAL COST PLANNING

Sectors of the property market; financial feasibility studies; project financing; project cost control; life cycle costing; energy audits; maintaining property asset value; investment decision-making; facilities management; forecast for property markets.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

■ ARP502 ADVANCED INTERIOR DESIGN 1

Exploration of contemporary ideas, theories, methods; practical application of research, analysis, evaluation and the synthesis of ideas related to interiors; contemporary issues in user-oriented design; the development of advanced information retrieval skills; main topics in this AIRS program are: using the QUT library and other information services; accessing information through indexes and abstracts; computerised information retrieval; current awareness strategies; organising and evaluating information.

Course: AR62

Credit Points: 18 Contact Hours: 7 per week

■ ARP503 ADVANCED INTERIOR DESIGN 2

The issues of environmental communications; the physiological, psychological and sociological aspects of workplace interiors.

Course: AR62

Credit Points: 18 Contact Hours: 6 per week

■ ARP506 BRIEF DEVELOPMENT

Explores the fundamentals of brief development and its implications for design efficiency and effectiveness; the nature of design; problem definition; brief development – a traditional view; brief development: an evolutionary view; participatory design; decision-making and the organisational structure; setting up the information network; information gathering and recording; developing a client structure; and design process and problem type.

Course: AR62

Credit Points: 8 Contact Hours: 2 per week

■ ARP507 PROFESSIONAL PRACTICE FOR INTERIOR DESIGNERS

The role and responsibilities of the interior designer in professional practice: job administration, liability, copyright, designer and client relationships; communication management and organisation of a project. The fundamentals of task scheduling; planning systems and control models; program evaluation and review techniques; critical path monitoring; organisational developments; recruitment staffing structures; concepts of marketing related to the profession.

Course: AR62

Credit Points: 12 Contact Hours: 4 per week

■ ARP601 SETTING THE SCENE

Incorporates a series of case studies of significant film and theatre sets; students explore the influence of design on emotive behaviour and interpret the implication of this for interior design of a more conventional kind; use is made of the current projects in the unit Environmental Communications.

Course: AR62

Credit Points: 10

Contact Hours: 3 per week

■ ARP604 CONSERVATION OF HISTORIC INTERIORS

The ethics and the role of the designer in the conservation of interiors. An introduction to building technologies as required by a practising designer working on conservation and restoration projects.

Course: AR62

Credit Points: 14

Contact Hours: 6 per week

■ ARP605 BUILDING EVALUATION

Strategies for evaluation of building interior physical characteristics and user responses to utilisation of such areas from technical, sociological and psychological perspectives; students assess existing sites to foster an appreciation of client and user requirements, compilation of strategies and reports, statistical analysis and application of data.

Course: AR62

Credit Points: 8

Contact Hours: 2 per week

■ ARP606 ELECTIVE UNIT

A selected and approved course of study within the university or at another institution which enables students to deepen their knowledge in particular areas of interior design. All Electives undertaken shall have the prior approval of the Course Coordinator. No special timetabling arrangements will be made to cater for Electives.

Course: AR62

Credit Points: 8

Contact Hours: 2 per week

■ ARP613 ADVANCED ERGONOMICS 1

Man-machine systems and their relations with living and working environments; the importance of ergonomics (human factors) criteria and their application to industrial design. The course consists of series of seminars relevant to case studies concerned. Typical case studies are concentrated on the ergonomic evaluation of consumer products.

Course: AR61

Credit Points: 6

Contact Hours: 2 per week

■ ARP623 ADVANCED ERGONOMICS 2

Systematic ergonomic evaluation methods and their application to design problems. Lectures and seminars relevant to case studies on the ergonomic evaluation of the working and living environment, eg. key-punch operator work station, bus driver work station and ergonomic evaluation of an assembly line.

Course: AR61

Credit Points: 6

Prerequisite: ARP613
Contact Hours: 2 per week

■ ARP642 CASE STUDIES

Case study evaluation by practising designers; study of different evaluation methods and techniques; the application of evaluation methods through individual case studies. All design factors of manufactured products are evaluated in depth.

Course: AR61

Credit Points: 6

Contact Hours: 2 per week

■ ARP652 DESIGN MANAGEMENT & DECISION THEORY

Meaning of the design process, control and the design process, complexity of design problems, types of contracts, design and business, project team, design responsibility, management, documentation, concept of evaluation and management action, application of design theory to design management.

Course: AR61

Credit Points: 2

Contact Hours: 1 per week

■ ARP653 PROFESSIONAL PRACTICE

The role and responsibilities of the industrial designer in professional practice; job administration, liability, design protection, designer and client relationships.

Course: AR61

Credit Points: 2 Contact Hours: 1 per week

■ ARP654 PROFESSIONAL PRACTICE AND MANAGEMENT

A series of lectures and seminars exploring the role of professional practice management. Lectures include: meaning of design process, control and the design process, complexity of design problems, type of contracts, design management, design documentation, concept of design evaluation and management, role administration, liability, design protection, designers-client relationships.

Course: AR61

Credit Points: 6 Contact Hours: 2 per week

■ ARP672 INDUSTRIAL DESIGN 1**■ ARP673 INDUSTRIAL DESIGN 2**

These units consist of studio work in which students design a range of products or systems. The emphasis is on projects generated from local industry and community. The complexity and depth of the design project increases according to the semester level.

Course: AR61

Prerequisite: ARP672

Credit Points: 12 Contact Hours: 6 per week

■ ARP674 INDUSTRIAL DESIGN RESEARCH 1

A topic is selected by a student and approved and supervised by industrial design staff. Examples are: microsurgical equipment design, bushfire safety equipment, mobile dental clinic in isolated regions and interactive display in psychological testing.

Course: AR61

Prerequisite: ARP673

Credit Points: 18 Contact Hours: 8 per week

■ ARP675 INDUSTRIAL DESIGN RESEARCH 2

This unit depends on the topic selected by a student in the previous semester. Students are responsible for the program as a part of their project work, which are approved and supervised by industrial design staff.

Course: AR61

Prerequisites: ARP672, ARP674

Credit Points: 18 Contact Hours: 8 per week

■ ARP676 ADVANCED COMPUTER-AIDED INDUSTRIAL DESIGN 1

Advanced CAD in the design process. Introduction to the interactive use of the application of CAD/CAM and SLA in the development of finalisation of design projects. Application of animation techniques to design evaluation and presentation.

Course: AR61

Credit Points: 6 Contact Hours: 2 per week

■ ARP677 ADVANCED COMPUTER-AIDED INDUSTRIAL DESIGN 2

Advanced CAD in design development, analysis and manufacturing (CNC) process. Employing CAD/CAM and SLA in the development, evaluation, finalisation, documentation and presentation of a design project.

Course: AR61

Credit Points: 6 Contact Hours: 2 per week

■ ATN001 RESEARCH PROJECT - 1 UNIT

Repeatable unit indicating the rate at which the Research Project within AT22 or AA24 is being undertaken.

Courses: AA24, AT22

Credit Points: 12

■ ATN002 RESEARCH PROJECT - 2 UNITS

See ATN001.

Courses: AA24, AT22

Credit Points: 24

■ ATN003 RESEARCH PROJECT - 3 UNITS

See ATN001.

Courses: AA24, AT22

Credit Points: 36

■ ATN004 RESEARCH PROJECT - 4 UNITS

See ATN001.

Courses: AA24, AT22

Credit Points: 48

■ AYB100 ACCOUNTING FOR MANAGERS

Accounting in the business world; fundamental accounting recording systems, preparation of financial statements for servicing and merchandising firms, financial statements of partnership and limited companies; internal control of cash, inventories and non-current assets; analysis and interpretation of financial statements; introduction to managerial accounting, cost-volume-profit analysis, the nature of planning and control, and managerial decision making.

Courses: AA21, BS50, ED23, IF52, IF54, IF56, IS43, NS48

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: AYB105, AYB110

■ AYB101 COMPUTERISED ACCOUNTING SYSTEMS

Management information systems and accounting systems; database and files; systems development life cycle; design of accounting systems including sales, accounts receivable, inventory, purchases, accounts payable, non-current assets, payroll and general ledger systems; accounting software such as ACCPAC, and spreadsheet software such as LOTUS 1-2-3; internal control in computer systems.

Courses: BS50, ED50, IF37 Prerequisite: ISB892

Credit Points: 12 Contact Hours: 4 per week

Incompatible with: FNB117

■ AYB102 ACCOUNTING DISCLOSURE & AUDIT

Tax effect accounting; consolidations; liquidations; acquisition of assets; company disclosure; overview of auditing and audit reports; ethics, legal liability and audit objectives; overall audit plan and audit program involving: evidence and documentation, materiality and risk, internal controls and the procedures for the audit of various applications - sales, purchases, etc.

Course: ED50

Prerequisite: AYB111

Credit Points: 12 Contact Hours: 3 per week

■ AYB103 GOVERNMENT ACCOUNTING

The structure of government economic and fiscal activities; elements of government accounting; the concept of public accountability; fiscal federalism and theory of budgeting fund accounting; public accounting of Commonwealth, State and Local Government levels; zero-based budgets and program budgets; budget strategies and financial decision making; project review; statutory corporations; quangos and committees; government financial reporting; external, internal and efficiency auditing; accounting for government business enterprises.

Course: BS50

Prerequisite: AYB110

Credit Points: 12 Contact Hours: 3 per week

■ AYB105 PRINCIPLES OF ACCOUNTING

Accounting in the business world; recording and classifying transactions; end of period adjustments; preparation of financial statements for service and merchandising firms; preparation of a worksheet to assist in preparing financial statements; internal control of cash; accounting for merchandising operations, accounts receivable and bad debts, inventories and non-current assets; the use of special journals; preparation of cash flow statements for sole trader; analysis and

interpretation of financial statements; introduction to management accounting, cost-volume profit analysis, planning, budgeting, control and managerial decision-making.

Courses: PU48, NS48

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: AYB100, AYB110

■ AYB110 ACCOUNTING

Elements of financial statements; characteristics of financial information; recording and classifying transactions; end of period adjustments; financial statements for service and merchandising firms; accounting for cash, receivables, inventory and non-current assets.

Courses: BS50, ED50, IF37, IT20, PU48, NS48

Credit Points: 12 **Contact Hours:** 4 per week

Incompatible with: AYB100, AYB105

■ AYB111 FINANCIAL ACCOUNTING

An examination of the accounting concepts and procedures relevant to both partnership and company business structures within the context of both the accounting profession's conceptual framework and the relevant legal requirements. Topics include: the formation, accounting procedures and financial statement preparation for both partnerships and company business structures; the role of corporate financial statement analysis; review of cash flow statements.

Courses: BS50, ED50, IF37, NS48

Prerequisite: AYB110

Credit Points: 12 **Contact Hours:** 4 per week

■ AYB112 COMPANY ACCOUNTING

Accounting for company income tax (tax effect accounting); acquisition of assets; consolidated financial statements; equity accounting and disclosure in company financial statements.

Courses: BS50, ED50, IF37 **Prerequisite:** AYB111

Credit Points: 12 **Contact Hours:** 4 per week

■ AYB113 ACCOUNTING THEORY & APPLICATIONS

The evaluation and development of accounting theory; regulatory framework and the theories of regulation; development of the conceptual framework; contracting cost framework; critique of historical cost and alternative theories; asset and liability definition and recognition; revenue and expense recognition and measurement.

Courses: BS50, IF37

Prerequisite: AYB112

Credit Points: 12 **Contact Hours:** 4 per week

■ AYB210 AUDITING

The audit environment; legal liability of auditors; professional ethics; study and evaluation of audit planning and programming, evidence, internal control theory and review techniques; audit program applications: revenue, receivables, cash, inventory; audit in EDP environments and evaluation of EDP controls; computer-assisted audit techniques; computer fraud; sampling techniques; the audit report.

Courses: BS50, ED50, IF37 **Prerequisite:** AYB112

Credit Points: 12 **Contact Hours:** 3 per week

■ AYB211 AUDITING & PROFESSIONAL PRACTICE

Audit concepts and procedures; preparing a system based audit plan; the nature and reasoning behind audit tests of balances; implementation of specified statistical sampling techniques; EDP auditing; independence; ethics; legal liability.

Course: BS50

Prerequisite: AYB210

Credit Points: 12 **Contact Hours:** 4 per week

■ AYB212 COMPUTER SECURITY & AUDIT

Impact of EDP on auditing, general EDP controls, EDP application controls, generalised audit software (GAS), computer-assisted audit techniques, special EDP environments, fraud and privacy.

Course: BS50

Prerequisite: AYB210

Credit Points: 12 **Contact Hours:** 3 per week

■ AYB217 INTRODUCTORY ACCOUNTING

The accounting equation and the double entry principle; recording business transactions; end of period adjustments; financial statements and closing entries; accounting for merchandising operations; specialised journals and subsidiary ledgers; cash controls; accounting for partnerships; accounting for companies; interpretation of financial statements.

Courses: LW31, LW33, LX31

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN101 ACCOUNTING PRINCIPLES

The nature and function of accounting information and its underlying concepts. Topics include: the accounting equation; elements of financial statements; recording and classifying accounting transactions; preparation of financial statements; external reporting; analysis and interpretation of financial information; managerial accounting including simple decision models and the preparation of budgets.

Courses: BS78, BS81, IF64

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: AYN112

■ AYN102 ACCOUNTING RESEARCH

The research methodology used in accounting and related disciplines; the use of certain research techniques to assist students in their research dissertation and preparation of research papers; aims to develop a capacity to build a theoretical model, to design an appropriate research methodology and to understand and utilise statistical analysis for accounting research purposes. This unit is a prerequisite for BSN100 Dissertation and should be attempted immediately prior to enrolment in BSN100 Dissertation.

Courses: BS60, BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN103 ADVANCED COMPANY ACCOUNTING

Consolidated financial statements; changes in degree of ownership; reverse subsidiaries and reciprocal shareholdings; consolidation and the existence of preference shares; translation and consolidation of foreign currency financial statements; consolidated cash flow statements; accounting for joint ventures, foreign currency transactions; segment reporting; trusts, superannuation funds and insurers. Please contact the School of Accountancy office regarding commencement date. This unit runs outside the normal semester timetable.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: AYN300

■ AYN104 AUDIT SAMPLING

Statistical sampling methods in the performance of audits. Discussion centres on relevant statistical concepts rather than on unique computational issues. Topics include: the audit sampling process; auditor decisions and risk; attribute, variable and probability proportional-to-size sampling.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN106 AUDITING HONOURS

The nature of auditing research and review of current research in such areas as: the role of auditing; inde-

pendence; reporting; liability; fraud detection; audit process; risk; materiality; internal control; analytical review; ethics; computer auditing; and auditing standards.

Courses: BS60, BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN107 AUDITING STANDARDS & PRACTICE

An examination of relevant auditing standards and their implications for practice. Case studies develop an analytical approach and the ability to exercise professional judgement in audit problems. Recent journal articles, legal cases and newspaper reports are used in conjunction with the cases.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN109 COMPUTER AUDITING

The impact of EDP on controls and auditing; general EDP controls; generalised audit software, static and concurrent computer-assisted audit techniques, special EDP environments and computer fraud.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN111 EXTERNAL REPORTING ISSUES

Issues in external reporting; the extractive industries; long-term construction contracts; segments; foreign currency operations, translations and transactions; leasing; tax-effect accounting; goodwill and unidentifiable intangibles; intercorporate investments and joint ventures; liabilities and off-balance sheet financing; and funds/cash flow statements. Readings from research and professional literature to enhance students' understanding of professional problems.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN112 FINANCIAL ACCOUNTING 1

An introduction to accounting; recording business transactions; adjusting the accounts and preparing financial statements; completion of the accounting cycle; accounting systems and specialised journals; cash and cash journals; accounting for receivables and payables; accounting for merchandising operations and inventories; non-current assets; partnerships; companies; accounting for non-current liabilities; investments; statement of cashflows; analysis and interpretation of financial statements.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: AYB110, AYB111

■ AYN113 FINANCIAL ACCOUNTING 2

Accounting function within a company; accounting for company income tax (tax-effect accounting); liquidation; acquisition of assets including companies; consolidated financial statements, equity accounting; disclosure in company financial statements.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN114 FINANCIAL ACCOUNTING 3

The evolution of accounting theory; the external financial reporting framework; theories of regulation and the conceptual framework; theory of the firm developed into the contracting cost framework; profits and application of the theory of profits – construction contracts and segment reporting; assets and the application of the theory of assets, intangible assets and the extractive industries; liabilities and the application of the theory of liabilities – debt defeasance, debt versus equity and leases; further applications of the theory of profits, assets and liabilities

– intercorporate investments, joint ventures and foreign currency transactions and translation.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN115 FINANCIAL ACCOUNTING HONOURS

The nature, methodology and development of accounting theory; transaction cost economics; positive accounting; accounting disclosure regulations; incentive problems and contracting explanations for external financial reporting; accounting policy choice and the value of the firm; accounting and the political process.

Courses: BS60, BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN117 FINANCIAL REPORTING

Conceptual framework; preparation and presentation of financial statements; accounting for income tax (tax-effect accounting), leases, construction contracts and the extractive industries; goodwill; acquisition and revaluation of assets; equity accounting. Please contact the School of Accountancy office regarding commencement date. This unit commences in early January.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN118 INTERNAL AUDITING

The techniques used by the internal or operational auditors; the need for efficiency or value-for-money auditing; performance auditing; the internal auditor in large organisations both public and private; ethical considerations.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN119 INTERNATIONAL ACCOUNTING

Issues related to international accounting and the international accounting standard setting process. Issues examined include: the harmonisation of accounting; the environmental influences on international accounting; accounting principles and procedures in selected countries; foreign currency translation and transactions; transfer pricing and management accounting issues; internal and external audits worldwide; impact of multinational enterprises; analysis of foreign financial statements.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN120 AUDITING (MBA)

The audit environment; legal liability of auditors; professional ethics; study and evaluation of audit planning and programming, evidence, internal control theory and review techniques; audit program applications; revenue, receivables, cash; inventory; audit in EDP environment and evaluation of EDP controls; computer-assisted audit techniques; computer fraud; sampling techniques; ethics; the audit report.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ AYN300 ACCOUNTING 1 (PY)

See AYN103. Please contact the School of Accountancy office regarding commencement date. This unit runs outside the normal semester timetable.

Courses: BS70, BS87

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: AYN103

■ AYN301 AUDITING (PY)

Examination at an advanced level of auditing standards and their practical application, judgemental and statistical audit sampling; EDP controls, and computer-assisted audit techniques, and audit reporting.

Courses: BS70, BS87 Prerequisite: FNN300
Credit Points: 12 Contact Hours: 3 per week

■ **AYN302 SPECIAL TOPIC – PUBLIC ACCOUNTING**

A study of topical areas in the public accounting area.
Courses: BS70, BS87
Credit Points: 12 Contact Hours: 3 per week

■ **AYN303 ACCOUNTING INFORMATION SYSTEMS (PY)**

Examination at an advanced level of accounting information systems (AIS). Topics include AIS strategic planning, feasibility analysis, systems development and implementation, networks and the electronic business.
Courses: BS70, BS87
Credit Points: 12 Contact Hours: 3 per week

■ **BNB001 LEARNING AT UNIVERSITY**

The importance of goal setting and motivation, differences between High School and University study, the student/lecturer relationship, approach to learning questionnaire; study management, clarification of learning goals, benefits of planning to the control of learning; using lectures and pracs to your advantage, networking, concept mapping and flow charts; using textbooks and set notes to boost understanding; active versus passive learning skills and the implications of both; professional writing – pracs, reports, assignments; critical thinking, problem-solving; concentration and memory; learning and stress management; exam preparation, strategies and techniques.

Courses: BN30, CE42, CN31, CN32, CN33, EE43, EE44, IF54, ME45, ME46, PS47
Credit Points: 2 Contact Hours: 1.5 per week

■ **BNB002 INTRODUCTION TO ENGINEERING**

Learning at university; skills and attitudes for effective learning; self management; the learning process; stress management. Introduction to the Faculty of Built Environment & Engineering; history of the engineering profession; civil, environmental, electrical, electronic, computing, mechanical, manufacturing, associated professions; architecture, industrial design, planning, landscape architecture, surveying, construction management and property economics.

Courses: CE42, EE43, EE44, ME45
Credit Points: 6 Contact Hours: 3 per week

■ **BNB003 PROFESSIONAL PRACTICE IN ASIA/PACIFIC**

Overview of the region; institutional and business environments; guidelines for professional practice overseas; sourcing opportunities; selected case studies.
Courses: CE42, EE44, ME45

Credit Points: 8 Contact Hours: 3 per week

■ **BNB103 GENERAL ELECTIVE UNIT**

Studies previously completed by students in areas of business or humanities may be acceptable as a Group A elective; applications to have such studies accepted as meeting the Group A elective requirements are considered on an individual basis.

Courses: EE44, ME45
Credit Points: 4 Contact Hours: 2

- **BNT100 INDUSTRIAL EMPLOYMENT 1**
- **BNT200 INDUSTRIAL EMPLOYMENT 2**
- **BNT300 INDUSTRIAL EMPLOYMENT 3**
- **BNT400 INDUSTRIAL EMPLOYMENT 4**
- **BNT500 INDUSTRIAL EMPLOYMENT 5**
- **BNT600 INDUSTRIAL EMPLOYMENT 6**
- **BNT700 INDUSTRIAL EMPLOYMENT 7**
- **BNT800 INDUSTRIAL EMPLOYMENT 8**

Students should engage in at least 15 weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Courses: CE21, EE22, ME23
Credit Points: 3 each
Contact Hours: 15 weeks each

■ **BSB102 MANAGEMENT & ORGANISATION**

An introduction to the theory, process and practice of management and organisations. Emphasis is placed on the importance of people in achieving organisational objectives and the need for participants in organisations to become more analytical and strategic in their approach to managing various organisations including those in both the public and private sector.

Courses: AA21, BS50, ED50, IF31, IF37, IF52, IF54, IF56, IS43, IT20, NS48, PU48, PU49
Credit Points: 12 Contact Hours: 3 per week

■ **BSB103 BUSINESS COMMUNICATION & APPLICATION 3**

Nature and development of information systems; transaction processing and computer applications in business; management information systems, decision support systems, executive information systems and expert systems; security issues; theory and practice of written communication in a professional context.

Courses: IF33, IF38, IF53, IF54, IS28, IS43, IT20, IT32
Credit Points: 12 Contact Hours: 3 per week

■ **BSB400 RESEARCH METHODOLOGY**

Equips students with a range of ideas and methods allowing them to analyse, evaluate and conduct research in discipline areas within the fields of study. Essential preparation for the thesis. Areas include: science and knowledge – paradigms; analysis and criticism; research design; data collection; data manipulation and interpretation; presentation.

Courses: BS62, BS83, BS85
Credit Points: 12 Contact Hours: 3 per week

■ **BSN100 DISSERTATION**

The dissertation should reflect the application of theoretical analysis or problem-solving in accounting, managerial accounting or finance, or accounting legal studies. Students are advised to seek a topic, and to approach the course coordinator early in their program. The dissertation topic proposal must be presented as a seminar to Faculty staff in the semester prior to enrolling in the dissertation.

Course: BS60, BS87 Prerequisite: AYN102
Credit Points: 24

■ **BSN102 SEMINAR IN COMMUNICATION RESEARCH**

Allows advanced students to undertake research in order to develop special expertise in a selected methodology, including specific methods and techniques, appropriate to each student's own research interests. It is designed for advanced study in the methods of interpretive or empirical research, quantitative or qualitative. Students may undertake one or more research projects under the direction of their supervisor. They progressively present their work in a seminar of advanced students for review. It can be used to advance a thesis or project.

Course: BS84
Credit Points: 12 Contact Hours: 3 per week

■ BSN104 INDIVIDUAL RESEARCH

Permits students to conduct independent research in an area not covered by a substantive unit in their program, and gives them an opportunity to study and area of personal interest or use it as a pilot study for a thesis or project. Students must formulate a topic, find a staff member to supervise the study, and write a report of about 6000+ words.

Course: BS84, BS85

Credit Points: 12

■ BSN116 THESIS

A thesis is a scholarly work providing an opportunity to combine an appropriate research methodology to examine a significant communication problem or issue. Main text will be in the vicinity of 30,000 words. Students complete a literature review and thesis proposal before proceeding to the thesis proper.

Course: BS84

Credit Points: 48

■ BSN129 APPLIED RESEARCH PROJECT

Allows the student to demonstrate an ability to plan and execute a significant piece of applied research, or to conduct an independent study of an applied area, with a minimum of supervision. Students are individually assigned to a project supervisor and should contract with them on the nature of the project to be undertaken and the methodology to be used. The final project report, of a maximum of 15,000 words, must demonstrate an ability to identify and research a significant managerial problem area. A comprehensive literature review of the area, and an appreciation of other relevant studies in the area must be included.

Course: BS83

Credit Points: 12

■ BSN141 APPLIED RESEARCH METHODS

Provides a detailed review of data collection and analysis techniques, relevant to research in accounting, finance and related disciplines. Teaches students how to develop applied research proposals. Students develop a practical understanding of survey, interview, case study and associated research techniques. Students are expected to undertake advanced information retrieval in order to gather extensive detailed information relating to a particular research topic. Research findings must be presented in both report form and through verbal presentation.

Course: BS87

Credit Points: 12

Contact Hours: 3 per week

■ BSN142 RESEARCH PROJECT

A major piece of applied research. The research project provides the opportunity to apply and reinforce the education and knowledge gained from the course to resolving a complex business problem in accounting, finance, and accounting legal studies or related discipline by research report, case study, or application of technology. The final project must demonstrate an ability to identify and research a complex business problem in accounting, finance and accounting legal studies or related discipline.

Course: BS87 Prerequisites: AYN102 or BSN141

Credit Points: 24

Contact Hours: 3 per week

■ BSN143 IMPLEMENTING & SUSTAINING TOTAL QUALITY MANAGEMENT

The management issues that need to be addressed in implementing a sustainable structure for TQM. These include the definition of an appropriate structure based on organisational strengths and weaknesses, and the development of a strategy for implementation.

Course: IF66

Credit Points: 12

Contact Hours: 3 per week

■ BSN144 THESIS (1-4)

This unit is a culmination of a research degree in that students apply theory and research material to explore in some depth an applied or theoretical topic in their chosen field. Students develop a research topic, collect information about that topic from primary and/or secondary sources, evaluate the evidence and arguments, and present the results of that critical assessment in an organised and logical form. The thesis consists of a substantial written report. Honours theses of 48 credit points could be expected to contain about 20,000 words. The thesis is assessed by two examiners, one of whom must be external to QUT. Students select a supervisor to assist them with the development and implementation of their research topic. They negotiate a learning contract which stipulates among other things the frequency and duration of meetings with the supervisor, and the timetable for submission of interim and final reports. Planning for the thesis should begin as early as possible, allowing lead-up units to be keyed to the thesis as appropriate.

Courses: BS62, BS83

Prerequisites: BSB400 and 2 of 3 major units

Credit Points: Students enrol in sequential 12 credit point theses units commencing with BSN144 until they have completed the requisite number of thesis credit points. Progress is assessed at the end of each semester. Note that each thesis is assessed on one major report submitted at the completion of all necessary thesis units.

■ BSN145 THESIS (1-8)

This unit is a culmination of a research degree in that students apply theory and research material to explore in some depth an applied or theoretical topic in their chosen field. Students develop a research topic, collect information about that topic from primary and/or secondary sources, evaluate the evidence and arguments, and present the results of that critical assessment in an organised and logical form. The thesis consists of a substantial written report. Ordinarily this would involve a report of up to 60,000 words of examinable material for a 144 credit point thesis.

Courses: BS62, BS83

Prerequisite: BSN144

Credit Points: Students enrol in sequential 12 credit point theses units commencing with BSN145/1 until they have completed the requisite number of thesis credit points. Progress is assessed at the end of each semester. Note that each thesis is assessed on one major report submitted at the completion of all necessary thesis units.

■ BSN149 PROJECT

Students undertake an analytic study of approaches to TQM implementation that forms a basis for development of an approach to implementation tailored to a particular organisation. This forms the groundwork for unit BSN150. The project report covers either (a) a detailed study of the strengths and weaknesses of the quality approach of a particular organisation or (b) a critical review of approaches to TQM reported in the literature.

Course: IF66

Credit Points: 12

■ BSN150 PROJECT

Students undertake an in-depth study of the practical requirements for implementing a TQM approach either within a specific organisation or across a range of organisations. By integrating this practical study with the theoretical content of other units, students develop skills that enable them to take a leading role in developing and implementing an organisational strategy based on quality. The project report covers either (a) a

critical analysis of the approaches used in a particular organisation for the implementation of a quality program, together with a detailed plan for future developments of (b) a research-based report on the applicability and implementability of TQM. This may focus on broad theoretical issues or on a particular industry. The precise scope is developed in consultation with the Course Coordinator.

Course: IF66

Credit Points: 24

■ BSN151 RESEARCH DISSERTATION

All students undertake a research dissertation. Each student is assigned to a supervisor, subject to the approval of the Course Coordinator, in consultation with the relevant Head of School. In general, the supervisor provides guidance in relation to the choice, preparation and submission of the dissertation. Supervisors are appointed when students commence the research seminar unit. The supervisor shall not be an examiner of the dissertation. The dissertation is examined by an examining committee of at least three, appointed by the Dean, and consist of at least two examiners, one of whom may be external to the university, plus the Course Coordinator, who acts as chair of the committee.

Course: IF64

Credit Points: 48

■ BSN803 THESIS 1

The first stage in the culmination of the Masters degree for students in the part-time course. Students begin to apply the theory and research material covered in earlier units to a chosen thesis topic in consultation with an approved supervisor. Students are expected to complete a thesis proposal and give a seminar presentation.

Course: BS84

Credit Points: 12

■ BSN804 THESIS 2

The second stage for part-time students in the preparation of the thesis. Students consolidate the preparatory work begun in Thesis 1 by preparing drafts of two chapters of their dissertation under structured supervision.

Course: BS84

Credit Points: 12

■ BSN805 THESIS 3

Completes the sequence of thesis units in the part-time course. Students complete the drafting of their thesis and revise to a final copy for submission under supervision. Minimum length is 30,000 words.

Course: BS84

Credit Points: 24 Contact Hours: 3 per week

■ BSP100 DISSERTATION

The culmination of the Honours degree in that students apply the theory and research material covered in earlier units to explore in some depth an applied or theoretical topic in their chosen discipline. The dissertation is normally based on information from secondary sources and consists of a written report of approximately 10,000 words.

Courses: BS61, BS84

Credit Points: 48

■ BSP101 ADVANCED COMMUNICATION SEMINAR

Designed to prepare students for writing their thesis; group instruction in techniques of thesis writing and what is involved in preparing a literature review and thesis proposal. Students choose a topic, have it approved and choose a supervisor under whose guidance they then undertake a literature review. Unit coordinator assists with selection of supervisor.

Courses: BS61, BS84

Credit Points: 12 Contact Hours: 3 per week

■ BSP102 COMMUNICATION SEMINAR

Designed to prepare students for writing their

dissertation; group instruction in techniques of dissertation writing and what is involved in preparing a literature review and thesis proposal. Students choose a topic, have it approved and choose a supervisor under whose guidance they then undertake a literature review. Unit coordinator assists with selection of supervisor.

Course: BS61, BS84

Credit Points: 12

Contact Hours: 3 per week

■ BSP104 DISSERTATION 1

The first unit in the culmination of the Honours degree. Students begin to apply the theory and research material covered in earlier units, to a chosen dissertation topic in consultation with an approved supervisor. Students are expected to complete a dissertation proposal and give a seminar presentation.

Courses: BS61, BS84

Credit Points: 12

■ BSP105 DISSERTATION 2

This unit is the second stage in the presentation of the Honours dissertation. Students consolidate the preparatory work begun in Dissertation 1 by preparing drafts of two chapters under structured supervision.

Courses: BS61, BS84

Credit Points: 12

■ BSP106 DISSERTATION 3

Completes the sequence of dissertation units. Students complete the drafting of their dissertation and revise to a final copy for submission under supervision. Length will be 12,000 to 15,000.

Courses: BS61, BS84

Credit Points: 24

■ CEB001 ENGINEERING MECHANICS A

Introduction to statics, forces, moments and couples; resolution and resultant of forces acting on a particle or rigid body; equilibrium of particle or rigid body under forces and/or moments; analytical and graphical methods for plane truss analysis; shear force and bending moment in beams; the properties of sections.

Course: CE42

Credit Points: 7

Contact Hours: 21 per week over 4 weeks

■ CEB002 ENGINEERING MECHANICS B

Principles of structural mechanics, stress, strain and elasticity; indeterminate structures and compatibility; simple beam theory including the flexure formula and the shear stress formula; torsion of circular sections; stresses in thin-walled pressure vessels; shear force and bending moment diagrams; hydrostatics.

Course: CE42

Co-requisite: CEB184

Credit Points: 7

Contact Hours: 21 per week over 4 weeks

■ CEB102 CIVIL ENGINEERING 1

An introduction to the profession of civil engineering, its scope and variety, and its many branches.

Courses: CE42, EE43, EE44, ME45

Credit Points: 2

Contact Hours: 1 per week

■ CEB184 ENGINEERING MECHANICS 1

See CEB001.

Courses: CE42, EE43, EE44, IF56, ME45, ME46

Credit Points: 6

Contact Hours: 3 per week

■ CEB185 ENGINEERING MECHANICS 2

See CEB002.

Courses: CE42, EE43, IF53, ME45, ME46

Co-requisite: CEB184

Credit Points: 6

Contact Hours: 3 per week

■ CEB192 INDUSTRIAL EXPERIENCE 1

Students should engage in at least five weeks employment, approved by the Head of School. For details see the School's Industrial Experience Handbook.

Course: CE42

Contact Hours: 5 weeks

■ CEB201 STEEL STRUCTURES

Structural behaviour and limit state design of steel structures, first as structural elements such as beams, columns, beam-columns and ties, then their connections (bolted and welded) and simple assemblies. Practical details and economy are discussed. Site visit and laboratory testing may be included.

Course: CE42

Prerequisite: CEB185

Co-requisites: CEB281, CEB282

Credit Points: 8 Contact Hours: 3.5 per week

■ CEB202 CONCRETE STRUCTURES 1

Basic principles involved in the limit state design of reinforced concrete structures. The determination of size and reinforcement to resist shear and bending in beams. Anchorage and detailing of reinforcement. Deflections in concrete structures and the analysis of long and short columns in uniaxial bending.

Course: CE31, CE42

Prerequisite: CEB185

Co-requisites: CEB281, CEB282

Credit Points: 8 Contact Hours: 3.5 per week

■ CEB211 HIGHWAY ENGINEERING

Highway geometry including vehicle performance and human factors as they relate to road geometry, geometric design, geometric co-ordination and use of computer aided design. Highway pavements including pavement materials and construction processes, pavement cross sections and drainage, pavement theory and pavement analysis methods. Construction sites will also be visited.

Course: CE42

Prerequisites: CEB293, MAB193, PSB907

Co-requisites: CEB240, MAB493

Credit Points: 8 Contact Hours: 4 per week

■ CEB220 CIVIL SYSTEMS 1

Computer applications in civil engineering science; hardware and software integration within the data logging environment are discussed.

Course: CE42

Prerequisites: CSB191, MAB187, MAB188

Co-requisites: CEB253, CEB260,

Credit Points: 6 Contact Hours: 3 per week

■ CEB221 ENGINEERING INVESTIGATION ANALYSIS AND REPORTING

Recording, analysing and presenting data are important facets of modern civil engineering practice. Not only do engineers use rapidly changing, microcomputer-based technology to access and analyse data, but they must be able to explain the results of their work in clear reports to their peers and to the public. Skills are developed in these aspects of engineering practice, emphasising the use of microcomputers. Microcomputers and their application in civil engineering; investigation and reporting, and the use of wordprocessors, spreadsheets, databases and computer graphics; development of student confidence and ability in keeping up with this changing technology. Verbal and written presentation techniques of civil engineering investigation topics. Skills taught in this unit will also aid students in most units taught in the curriculum.

Courses: CE42, CE31

Prerequisites: CSB191, COB163

Credit Points: 8 Contact Hours: 4 per week

■ CEB224 COMPUTER APPLICATIONS

The applications of computers in civil engineering will be studied with emphasis on software packages. This unit will establish the tools essential for the ensuring subjecting, Civil Projects A & B.

Course: CE31

Credit Points: 8 Contact Hours: 3 per week

■ CEB225 CIVIL PROJECTS A**■ CEB226 CIVIL PROJECTS B**

These units will integrate the skills and knowledge developed in earlier units by applying the basic engineering science and technology to complete specific engineering design projects. The objectives of this problem-based learning include both the development of specific design skills and the development of generic skills such as professional problem solving, group management, presentation and communication and professional practice issues such as ethics and social effects.

Course: CE31

Credit Points: 8 Contact Hours: 4 per week

■ CEB227 CIVIL INVESTIGATION PROJECT

This will involve a small investigation of an area of civil engineering technology. The unit is designed to develop a student's ability to learn independently and to compile and present verbal and written reports on the results of their investigation.

Course: CE31

Credit Points: 8 Contact Hours: 4 per week

■ CEB231 CONCRETE TECHNOLOGY

Materials: cement, aggregates, water quality, pozzolans, chemical admixtures and special materials. Testing: materials and concrete including quality control. Characteristics of concrete: plastic and hardened properties and influences of environment. Mix design: design for standard and special requirements.

Course: CE42

Credit Points: 7 Contact Hours: 3 per week

■ CEB240 SOIL MECHANICS 1

Description and classification of soil for engineering purposes; moisture/density relationships; compaction; pore pressure, effective stress and suction; shear strength of cohesionless and cohesive soils; lateral earth pressure; earth retaining structures design.

Course: CE42

Prerequisite: CEB185

Credit Points: 8 Contact Hours: 3.5 per week

■ CEB241 SOIL MECHANICS 2

Bearing capacity of shallow foundations; permeability and seepage; surface loading on an elastic medium; pore pressure parameters; consolidation; settlement and design of shallow foundations; computer applications in seepage and consolidation.

Course: CE31, CE42

Prerequisite: CEB240

Credit Points: 8 Contact Hours: 3 per week

■ CEB253 STRUCTURAL ENGINEERING 1

The calculation of deflections for determinate beams, frames and trusses and the analysis of indeterminate structures by the method of superposition; and computer-based analytical procedures.

Course: CE42

Prerequisite: CEB185

Co-requisites: CEB282, MAB493

Credit Points: 6 Contact Hours: 3 per week

■ CEB254 STRUCTURAL ENGINEERING 1

Determination of forces and/or bending moment distribution in simple determinate structures, stress distributions and transformation of stresses, strain and second moments of area, deflections of beams by the virtual work method and unsymmetrical bending.

Course: CE42

Prerequisite: CEB185

Co-requisite: MAB493

Credit Points: 8 Contact Hours: 3.5 per week

■ CEB255 STRUCTURAL ENGINEERING 2

Analysis of simple determinate structures by moment distribution and sway settlement and temporary affect, plastic analysis of beams, influence line diagram

for beam frames and trusses, tension on members and deflections of frames and trusses by virtual work method.

Course: CE42 **Prerequisites:** CEB254, MAB493
Credit Points: 8 **Contact Hours:** 3.5 per week

■ CEB260 FLUID MECHANICS

Fluid mechanics; its relationship to civil engineering practice; fluid properties; fluid statics, pressure, forces, buoyancy and stability; continuity, energy and momentum applied to steady one-dimensional flows; viscosity, turbulence, boundary layers and fluid dynamics forces; dimensional analysis.

Course: CE42

Prerequisites: CEB185, MAB187, MAB188

Credit Points: 8 **Contact Hours:** 3.5 per week

■ CEB261 HYDRAULIC ENGINEERING 1

The applications of fluid mechanics to pipe and open channel flow, flow measurement and hydraulic machinery. Topics include: steady flow in pipes, networks, flow measurement, uniform flow in open channels, pump and turbines.

Courses: CE42, CE31

Prerequisite: CEB260

Co-requisite: MAB493

Credit Points: 8 **Contact Hours:** 3.5 per week

■ CEB270 ENVIRONMENTAL SCIENCE

An introduction to the basic principles of ecology and natural systems. To give an appreciation of the adverse consequences of various types of pollution.

Courses: CE42, CE31

Prerequisite: SEB246

Credit Points: 8 **Contact Hours:** 3 per week

■ CEB281 STRENGTH OF MATERIALS

Extension of elastic theory from engineering mechanics into more complex states of stress and shape; composite beams; stress and strain transformations; combined loading; unsymmetrical bending; shear flow; shear centre; torsion; theories of failure; stress concentrations and fatigue.

Course: CE42

Prerequisite: CEB185

Credit Points: 6 **Contact Hours:** 2 per week

■ CEB282 STATICS

The structural behaviour of trusses, beams and frames. Qualitative evaluation of deflected shapes, shear force and bending moment diagrams. Load paths and structural idealisation of real structures.

Course: CE42 **Prerequisites:** CEB184, CEB185

Credit Points: 2 **Contact Hours:** 1 per week

■ CEB291 CIVIL ENGINEERING MATERIALS

Physical, chemical and engineering properties of common civil engineering materials. Ferrous and non-ferrous metals and alloys, timber, bitumen, cladding materials, polymers, corrosion of materials and protective measures. Selection of materials. Role of quality control in engineering units.

Course: CE42 **Prerequisites:** MEB133, MEB171

Credit Points: 7 **Contact Hours:** 3 per week

■ CEB292 INDUSTRIAL EXPERIENCE 2

Students should engage in at least five weeks employment, approved by the Head of School. For details see the School's Industrial Experience Handbook.

Course: CE42

Contact Hours: 5 weeks

■ CEB293 ENGINEERING SCIENCE

This will be designed to strengthen the engineering science background of associates. It will allow for some students to be exempt from parts of the subject in which they have a strong background.

Course: CE31, CE42

Prerequisite: MEB133

Credit Points: 8 **Contact Hours:** 4 per week

■ CEB304 CIVIL ENGINEERING DESIGN 1

Design project work involving the use of steel and reinforced concrete, geotechnical and highway designs; the influence of construction method to design; students prepare design calculations and sketches with the help of design aids and computer software; problem solving skills using projects.

Course: CE42

Prerequisites: CEB201, CEB202, CEB220, CEB240, CEB253

Co-requisites: CEB231, CEB241, CEB312, CEB354

Credit Points: 16 **Contact Hours:** 3.5 per week

■ CEB305 CONSTRUCTION PLANNING & ECONOMICS

Manual and computer based methods for the planning and programming of projects. The principles of economic and financial analysis pertaining to the planning and execution of engineering projects.

Course: CE31, CE42

Prerequisite: CEB307

Credit Points: 8 **Contact Hours:** 3 per week

■ CEB306 CONCRETE STRUCTURES 2

Principles involved in the serviceability limit state and ultimate limit state design of prestressed concrete structures. Stress blocks and equivalent loads due to prestress, losses, serviceability limit states of cracking and deflection, ultimate limit states of bending and shear, evaluation of deflections and design.

Course: CE42

Prerequisite: CEB202

Credit Points: 8 **Contact Hours:** 3 per week

■ CEB307 CONSTRUCTION PRACTICE

Basic procedures of civil engineering construction; provides a foundation for further construction studies; gives a practical perspective to later theoretical units.

Course: CE31, CE42

Prerequisites: CEB231, CEB281

Credit Points: 8 **Contact Hours:** 3.5 per week

■ CEB308 CONSTRUCTION PLANNING & ECONOMICS 2

The basic requirements of effective management and the relevance of teamwork within any organisation. Basic understanding of planning, organising, controlling and leading is developed with an emphasis on personal interaction and teamwork.

Course: CE42

Prerequisite: CEB307

Credit Points: 4 **Contact Hours:** 2 per week

■ CEB312 HIGHWAY ENGINEERING

Highway geometry including vehicle performance and human factors as they relate to road geometry, geometric design, geometric coordination and use of computer-aided design. Highway pavements including pavement materials and construction processes, pavement cross sections and drainage, pavement theory and pavement analysis methods.

Course: CE42

Prerequisites: CEB291, MAB193, PSB907

Co-requisites: CEB240, MAB493

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB313 TRAFFIC ENGINEERING

Traffic theory: traffic behaviour, models; traffic management analysis: unsignalised and signalised intersections, street lighting, signs, markings, barriers, parking. Traffic studies and transport planning.

Course: CE31, CE42

Prerequisite: MAB493

Co-requisite: CEB312

Credit Points: 8 **Contact Hours:** 3 per week

■ CEB341 GEOTECHNICAL ENGINEERING 1

Soil slope stability analysis by limit equilibrium,

drained and undrained conditions. Rock mechanics: rock properties and shear strength. Application to simple slope stability models. Pile foundations: vertical load soil capacity and settlement. Site investigation and in situ determination of soil properties.

Course: CE42 **Prerequisite:** CEB241
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB354 STRUCTURAL ENGINEERING 2

The analysis of indeterminate structures using moment distribution and matrix structural analysis techniques. Analysis of simple cable structures.

Course: CE42 **Prerequisites:** CEB253, MAB493
Credit Points: 7 **Contact Hours:** 3 per week

■ CEB355 STRUCTURAL ENGINEERING 3

Structural analysis of determinate structures under moving loads using influence lines for beams and trusses. The application of plastic analysis techniques to the analysis of beam, frame and slab structures.

Course: CE42 **Prerequisite:** CEB281
Co-requisites: CEB354, MAB893
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB359 PRINCIPLES OF STRUCTURES 1

Terminology, forces and reactions; loading on structures, equilibrium and stability; coplanar and non coplanar forces; resolution of forces; mechanism of structural components under load: compression, tension, bending, shear, deflection. Connections.

Courses: AR41, AR48, BN30
Credit Points: 2 **Contact Hours:** 1 per week

■ CEB360 HYDRAULIC ENGINEERING 1

The applications of fluid mechanics to pipe and open channel flow, flow measurement and hydraulic machinery. Topics include: steady flow in pipes, networks, flow measurement, uniform flow in open channels, pump and turbines.

Course: CE42 **Prerequisite:** CEB260
Co-requisite: MAB493
Credit Points: 6 **Contact Hours:** 3 per week

■ CEB361 HYDROLOGY

An introduction to hydrology and urban drainage design; hydrologic cycle, rainfall and runoff; groundwater evapotranspiration, statistical concepts, urban drainage design; unit hydrograph methods; flood studies; data generation, storage estimation.

Course: CE42 **Prerequisite:** CEB260
Co-requisite: CEB360
Credit Points: 6 **Contact Hours:** 3 per week

■ CEB362 HYDRAULIC ENGINEERING 2

Hydraulics: unsteady flow, movable boundary hydraulics, hydraulic models and hydraulic design of structures. Topics include: steady flow compound open channels with variable roughness; unsteady flow in pipes; unsteady flow in open channel flow; design of hydraulic structures such as transitions, culverts, crests, chutes, etc; mobile boundary hydraulics; the theory and practice relating to fixed and mobile boundary, natural scale and distorted models.

Course: CE42 **Prerequisite:** CEB261
Co-requisite: MAB893
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB364 ENGINEERING SCIENCE 2

Hydraulic engineering for surveyors. Fluids and fluid flow in pipes and channels. Flow measurement. Hydraulic models. Pumps and pump characteristics.

Courses: CE42, PS47, SV34
Prerequisites: MAB199, MEB221
Credit Points: 6 **Contact Hours:** 3 per week

■ CEB370 PUBLIC HEALTH ENGINEERING 1

The principles of public health engineering. Causes and effects of water pollution, principles of unit processes and operations of water quality control. An introduction to air pollution, its causes and control.

Course: CE31, CE42 **Prerequisite:** CHB346
Credit Points: 8 **Contact Hours:** 3.5 per week

■ CEB371 WATER AND WASTEWATER SYSTEMS

With CEB370 this unit provides a basic understanding of public health engineering practice and an introduction to design in the area of water and wastewater systems. This is a major application area for both generalist civil engineers and environmental engineers.

Course: CE31, CE42 **Prerequisite:** CEB370
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB372 ENVIRONMENTAL TECHNOLOGY

An introduction to resource management and pollution control. The effects of technological processes on the environment. Concept of sustainable development.

Courses: CE42, CE31
Prerequisites: CEB270, SEB246
Co-requisite: CEB370
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB375 ENVIRONMENTAL SCIENCE & TECHNOLOGY

An introduction to the basic principles of ecology and natural systems. To give an appreciation of the adverse consequences of various types of pollution.

Course: CE42 **Prerequisite:** CHB346
Credit Points: 7 **Contact Hours:** 3 per week

■ CEB392 INDUSTRIAL EXPERIENCE 3

Students should engage in at least five weeks employment, approved by the Head of School. For details see the School's Industrial Experience Handbook.

Course: CE42 **Contact Hours:** 5 weeks

■ CEB393 ENGINEERING INVESTIGATION & REPORTING 1

The appropriate techniques of investigation and reporting on civil engineering processes.

Course: CE42 **Prerequisite:** COB163
Credit Points: 3 **Contact Hours:** 2 per week

■ CEB401 DESIGN PROJECT

Students will work in groups to produce initial studies and outline designs of typical civil engineering projects. Students are required to define problems, establish goals for the project, identify and collect necessary information, generate alternative solutions and optimise some of these solutions. Students are to develop an awareness of the possible impact of civil engineering projects on ecosystems. Students will prepare and present reports on aspects of selected projects, including feasibility studies, environmental and economic assessment. Compulsory site visits.

Course: CE42
Prerequisites: CEB305, CEB313, CEB361
Co-requisites: CEB341, CEB470
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB403 PROFESSIONAL PRACTICE

Engineering organisations, project initiation, documentation, form of contract, contract administration, arbitration, safety and insurances, legal responsibilities, ethics. Preparation in job applications and interview techniques.

Course: CE42 **Prerequisite:** CSB191
Co-requisite: CEB305
Credit Points: 8 **Contact Hours:** 3 per week

■ CEB404 FIELD TRIP

Site visits to several civil and structural projects (generally under construction in South East Queensland). The practical inspections are supervised by lecturing staff and engineers associated with the project, and allow valuable consolidation of the theoretical aspects of other units.

Course: CE42

Co-requisites: CEB201, CEB202, CEB312, CEB360

Credit Points: 3 **Contact Hours:** 1.5 per week

■ CEB405 CIVIL ENGINEERING DESIGN 2

Continuation of CEB304, with topics covering structural and civil engineering design, ie. municipal civil/structural projects. Field visits are required. More general problem solving skills are developed so graduates can successfully complete projects other than those covered in the course.

Course: CE42

Prerequisites: CEB231, CEB304, CEB341

Co-requisites: CEB460, CEB470

Credit Points: 16 **Contact Hours:** 3 per week

■ CEB406 STRUCTURAL APPLICATIONS

Analysis, design, supervision of construction and performance of structures. Topics include: structural systems, modelling, sketching, civil engineering structures, designing for construction, detailing and lessons from structural failures, timber structures and the role of testing, controlling vibrations in structures.

Course: CE42

Prerequisites: CEB291, CEB354, CEB355

Credit Points: 8 **Contact Hours:** 3 per week

■ CEB422 CIVIL SYSTEMS 2

Civil engineering systems: understanding and applying advanced civil engineering software, methods of error checking and model validation. Experimental instrumentation and data logging. Financial systems: financial statements for civil engineering enterprises, measurement of assets and liabilities, depreciation rates, interpretation of published financial statements.

Course: CE42

Prerequisites: CEB220, CEB241, CEB355, CEB460

Credit Points: 5 **Contact Hours:** 2 per week

■ CEB430 BUILDING CONSTRUCTION

Provides a broad appreciation of building techniques and principles; including details of building construction from footings to fitting out for low and high-rise structures including appropriate building regulations.

Course: CE42

Prerequisite: CEB305

Credit Points: 2 **Contact Hours:** 1 per week

■ CEB459 PRINCIPLES OF STRUCTURES 2

Loading on buildings. Foundations and footings. Timber, construction, floor, wall and roof framing cladding, fastening and connections. Structural stability. Masonry: brickwork and blockwork, loadbearing construction, continuity, stiffening. Codes.

Courses: AR41, AR48, BN30

Prerequisite: CEB359

Credit Points: 4 **Contact Hours:** 2 per week

■ CEB460 HYDRAULIC ENGINEERING 2

Hydraulics: unsteady flow, movable boundary hydraulics, hydraulic models and hydraulic design of structures. Topics include: steady flow compound open channels with variable roughness; unsteady flow in pipes; unsteady flow in open channel flow; design of hydraulic structures such as transitions, culverts, crests, chutes, etc. mobile boundary hydraulics; and the theory and practice relating to fixed and mobile boundary, natural scale and distorted models.

Course: CE42

Prerequisite: CEB360

Co-requisite: CEB361

Credit Points: 7

Contact Hours: 3 per week

■ CEB464 ENGINEERING SCIENCE 3

Rainfall intensity duration frequency relating in Australia; hydrographs, annual rainfall; stream flow hydrographs, rainfall-runoff relations, including the rational formula; frequency analysis; open channel flow, pipelines and culverts; design of stormwater drainage systems, including major and minor systems; water supply and sewerage – descriptive treatment of sources and treatment processes.

Course: PS47

Prerequisite: CEB364

Credit Points: 6

Contact Hours: 3 per week

■ CEB470 PUBLIC HEALTH ENGINEERING 2

Development of principles taught in CEB370 to enable functional design of treatment units to be undertaken. An introduction to sewerage and water reticulation. On completion, the student should be able to proceed to simple design exercises in water supply and sewerage and treatment processes.

Course: CE42

Prerequisite: CEB370

Credit Points: 5

Contact Hours: 3 per week

■ CEB471 ENVIRONMENTAL DESIGN PROJECT

Intended to combine material covered in a number of disciplinary areas into a realistic environmental engineering project where the overall scope of a "real world" environmental engineering problem is investigated. A general approach to problem definition and solution is to be emphasised and the identification and study of environmental impacts is illustrated by application to a specific project.

Course: CE42

Prerequisites: CEB362, CEB305, CEB313

Co-requisite: CEB341

Credit Points: 8

Contact Hours: 3 per week

■ CEB475 ENVIRONMENTAL ENGINEERING DESIGN

Continues on from Civil Engineering Design 1 with the emphasis shifting to design of projects involving water quality management, waste management, land management and other environmental engineering applications. More general problem solving skills are to be developed so that graduates can successfully complete projects other than those covered in the course. There is special emphasis on the appropriate use of computers for engineering analysis and design and on the potential use of computers for monitoring and control of engineering processes.

Course: CE42

Prerequisites: CEB304, CEB270, CEB372

Credit Points: 16 (8 per semester)

Contact Hours: 4 per week in Semester 1; 3 per week in Semester 2

■ CEB491 PROJECT (CIVIL)

Students undertake a relatively difficult task in an area of civil engineering practice requiring research and development. Each project will include: a literature review; problem definition; organisation and execution of a program of investigation; critical analysis of investigation; presentation of a seminar on the work and presentation of a written report.

Course: CE42

Prerequisites: Completion of at least 250 credit points of the course including an appropriate combination of units.

Co-requisites: CEB393, CEB492

Credit Points: 16

Contact Hours: 3 per week

■ CEB492 ENGINEERING INVESTIGATION & REPORTING 2

Verbal and written presentation techniques of civil engineering investigation topics.

Course: CE42

Prerequisite: CEB393

Credit Points: 3

Contact Hours: 1 per week

■ CEB501 CIVIL ENGINEERING PRACTICE 1

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Unit is offered irregularly. When offered the unit material will be advertised by the Head of School.

Course: CE42

Prerequisites: Students must be in the final year of their course.

Credit Points: 8

Contact Hours: 3 per week

■ CEB502 PROJECT CONTROL

The planning and management of engineering developments of significance requires a range of project management skills relating to the interactions required with other professional disciplines, clients, government and the community. This subject provides training and experience in the application of these inter-disciplinary skills.

Course: CE42

Prerequisite: CEB305

Credit Points: 8

Contact Hours: 3

■ CEB503 ADVANCED CONSTRUCTION METHODS

Examination of existing practice and technology in the construction industry and insights into current and future developments in construction techniques and plant. Site visits are included.

Course: CE42

Prerequisites: CEB305, CEB307

Credit Points: 8

Contact Hours: 3 per week

■ CEB504 ENGINEERING SCIENCE 3

Hydrology; rainfall, stream flow measurement; hydraulic design of drainage. Soil mechanics; definition, properties and grading of soils; roadwork, foundation and retaining wall design; soil stability. Concrete technology; properties, manufacture and testing of concrete; elementary reinforced concrete design.

Courses: CE42, SV34

Co-requisite: CEB364

Credit Points: 5

Contact Hours: 3 per week

■ CEB505 PROJECT MANAGEMENT & ADMINISTRATION

Using case studies and 'role playing' techniques, students are required to develop solutions to a variety of project management problems, submit reports and make presentations regarding these exercises.

Course: CE42

Prerequisite: CEB305

Credit Points: 8

Contact Hours: 3 per week

■ CEB506 CIVIL ENGINEERING PRACTICE 2

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Unit is offered irregularly. When offered the unit material will be advertised by the Head of School.

Course: CE42

Prerequisites: Students must be in the final year of their course.

Credit Points: 8

Contact Hours: 3 per week

■ CEB511 TRANSPORT ENGINEERING 2

Students focus on two aspects of transport engineering, rural road upgrading and small urban area transportation planning and road needs. Includes highway upgrading, deficiency analysis, traffic accident

analysis, traffic flow simulation, staged development: overtaking lanes and rural intersection design; application of four-step transportation planning models, surveys, zone selection, network development, trip generation, distribution, assignment, model calibration, future year modelling, evaluation and selection of road needs, sensitivity analysis.

Course: CE42

Co-requisite: CEB512

Credit Points: 8

Contact Hours: 3 per week

■ CEB512 TRANSPORT ENGINEERING 1

Land use/transport interaction, trip generation, trip distribution, mode choice, transport operations analysis, transport economics, transport capacity, urban road planning principles, urban transit planning, railway, aviation and bulk commodity systems design. Advanced pavement design techniques.

Course: CE42

Prerequisite: CEB313

Credit Points: 8

Contact Hours: 3 per week

■ CEB520 FINITE ELEMENT METHODS

Finite element, finite difference and similar numerical techniques. Theoretical and modelling considerations are covered in the context of case studies in structures, soil mechanics and hydraulics.

Course: CE42

Prerequisite: CEB220

Credit Points: 8

Contact Hours: 3 per week

■ CEB531 MASONRY DESIGN

Working stress design. Assumptions, derivation of design formulae for beams, walls and columns with clay and concrete masonry. Masonry materials. Physical properties of masonry materials.

Course: CE42

Prerequisites: CEB306, CEB355

Co-requisite: CEB291

Credit Points: 8

Contact Hours: 3 per week

■ CEB541 GEOTECHNICAL ENGINEERING 2

Analysis, design and installation of sheetpile walls and excavation support. Protection of adjacent structures. Analysis, design and installation of pile and pier foundations. Shallow foundations on rock. Rock sockets. Foundations on expansive soils. Site characteristics by in situ testing methods. Selection of soil properties for design.

Course: CE42

Prerequisite: CEB341

Credit Points: 8

Contact Hours: 3 per week

■ CEB542 GEOTECHNICAL ENGINEERING 3

Development of marginal lands: trafficability; embankments on soft soil; preloading; vertical drainage; vibroflotation; dynamic compaction and methods of deep foundation improvement. Rock excavation and slope stabilisation. Soil improvement, including mechanical and chemical stabilisation, soil reinforcement and other techniques. Anchoring in soil and rock. Earth and rockfill design and construction.

Course: CE42

Prerequisite: CEB341

Credit Points: 8

Contact Hours: 3 per week

■ CEB543 ENVIRONMENTAL GEOHYDROLOGY

An introduction into the investigation and analysis of groundwater flow through porous media, including numerical modelling and contaminant transport.

Course: CE31, CE42

Prerequisite: CEB341

Credit Points: 8

Contact Hours: 3 per week

■ CEB551 ADVANCED STRUCTURAL DESIGN

Emphasis on the design of more complex structures. Normally three projects are studied involving some or all of: design in new materials, new analytical techniques, new codes of practice, novel structures.

Course: CE42

Prerequisites: CEB201, CEB306, CEB354

Co-requisite: CEB405

Credit Points: 8 **Contact Hours:** 3 per week

■ **CEB559 PRINCIPLES OF STRUCTURES 3**

Structural properties of mild steel and high tensile steel. Structural framing and connections. Structural systems in steel: beams and columns, portal frames, space frames, trusses, tensile structures.

Courses: AR41, AR48, BN30

Prerequisite: CEB459

Credit Points: 3 **Contact Hours:** 2 per week

■ **CEB560 HYDRAULIC ENGINEERING 3**

Lectures, tutorial, practical work and site visits examine selected topics in water engineering. Topics chosen from hydrology, mobile bed hydraulics, river hydraulics, hydraulic structures, urban drainage, physical and mathematical modelling.

Course: CE42 **Prerequisites:** CEB361, CEB460

Credit Points: 8 **Contact Hours:** 3 per week

■ **CEB561 COASTAL ENGINEERING**

Coastal engineering: wave theory, recording and analysis, wave generation; coastal processes, tides, surges, etc. currents, sediment movement, foreshore protection; coastal inlets, canal systems; planning and design of coastal structures; hydraulic models.

Course: CE42 **Prerequisite:** CEB360

Co-requisite: CEB460

Credit Points: 8 **Contact Hours:** 3 per week

■ **CEB564 ENGINEERING SCIENCE 4**

Road pavement and building footing appraisal methods; earthworks and reclamation design/testing procedures; local authority/DPI design guidelines for water supply and sewerage reticulation, all fitments and testing; roads – earthworks, pavements, surfacing, etc.; stormwater – trenching, bedding and backfilling; water/sewer – trenching, bedding, testing and backfilling; other services – conduits, specifications and estimating procedures; preparation of selected engineering design plans – roadworks, stormwater and other services; other engineered services for land developments projects; material selected to suit the student group; costing of engineering services; use of planning figures and unit costs; design office exercises in reading data from plans estimating costs, and preparing original designs and modifications to roads, water supply, sewerage and other engineered services.

Course: PS47 **Prerequisites:** CEB364, MED221

Co-requisite: CEB464

Credit Points: 6 **Contact Hours:** 3 per week

■ **CEB570 WASTE MANAGEMENT**

Basic solid waste management (domestic, commercial and industrial wastes); the general principles of industrial liquid waste management, with examples of some important industries.

Course: CE42 **Co-requisite:** CEB470

Credit Points: 8 **Contact Hours:** 3 per week

■ **CEB575 ENVIRONMENTAL IMPACT ASSESSMENT**

Introduction to the techniques of environmental management. Environmental impact assessment and the evaluation of critical environmental problems.

Course: CE42

Prerequisites: CHB346, CEB370, CEB491

Credit Points: 8 **Contact Hours:** 3 per week

■ **CEB659 PRINCIPLES OF STRUCTURES 4**

Structural behaviour of reinforced concrete. Basic theory of reinforced concrete beams and columns.

Structural elements systems in reinforced concrete: post-and-beam, one-and two-way slab, waffle slab, flat slab. Columns. Frames. Framing, walling and roofing in reinforced concrete.

Courses: AR41, AR48, BN30

Prerequisite: CEB559

Credit Points: 4 **Contact Hours:** 2 per week

■ **CEB701 CIVIL ENGINEERING QUANTITIES 1**

The measurement of civil engineering works based on the study of SMM of Civil Engineering Quantities. Detailed study of construction methods, plant, specification and measurement of: earthworks (clearing, compaction and dredging); roadworks (survey, bulk excavation and filling, pavement construction, kerbing, culverts); and bridges (abutments, superstructure, approach embankments, safety structures, types of bridge structures, foundations, prestressed concrete). It includes a brief introduction to computer applications such as earthwork calculations etc.

Courses: CN31, CN33

Prerequisite: CNB341

Credit Points: 4 **Contact Hours:** 2 per week

■ **CEB901 CIVIL ENGINEERING QUANTITIES 2**

Further study of SMM for industrial engineering construction leading to the measurement of dams, earthworks, storage volumes etc; refinery and processing plant, pipework, vessels, tanks, instrumentation, electrical commissioning, scaffold, shut down maintenance; pipelines, environmental assessment, construction, stations; mining, plant and equipment, conveyors, processing plant etc; oil and gas, off shore platforms, fabrications etc; cost engineering and cost control on engineering projects.

Course: CN33

Prerequisite: CEB701

Credit Points: 4 **Contact Hours:** 2 per week

■ **CEP107 CONSTRUCTION MANAGEMENT & ECONOMICS**

The management of operational features of engineering practice. Topics include engineering economics, contracts, plant and labour considerations of concern to the engineer and manager.

Courses: CE63, CE74

Credit Points: 8 **Contact Hours:** 2 per week

■ **CEP109 MUNICIPAL LAW & REGULATIONS**

The legislative framework for municipal engineering in Queensland. The various acts and regulations affecting the practising municipal engineer including powers and responsibilities are covered.

Courses: CE63, CE74

Credit Points: 8 **Contact Hours:** 2 per week

■ **CEP127 ROAD & TRAFFIC ENGINEERING**

Urban traffic management, parking systems, surveys, intersection analysis; the design and evaluation of the urban road network; design of rural roads and pavement structures; pavement management.

Courses: CE63, CE74

Credit Points: 12 **Contact Hours:** 3 per week

■ **CEP128 MUNICIPAL ENGINEERING PLANNING**

The principles of town and regional planning for municipal engineers in Queensland. The objectives and methodology of planning, practical problem solving, legislation and other factors of concern to the municipal and development engineer.

Courses: CE63, CE74

Credit Points: 12 **Contact Hours:** 3 per week

■ CEP131 ENGINEERING MANAGEMENT & ADMINISTRATION

Management principles and functions. Strategic and tactical planning, forecasting, decision-making. Budgeting and controls in organisations, techniques of project control. Human resources, managing change and development. Formulation of policy within a local authority. Local authority internal organisation, management, powers, responsibilities and functions, accounting and budgetary cycles, sources of finance and expenditure patterns.

Courses: CE63, CE74, IF64

Credit Points: 12 Contact Hours: 3 per week

■ CEP172 WATER QUALITY ENGINEERING

Liquid wastes and their effect on receiving waters. Dispersion and decay of pollutants in the water environment. Water quality standards and objectives.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP174 PUBLIC HEALTH ENGINEERING PRACTICE

Water supply network analysis, water sources, reservoirs, pumps, water hammer, sewerage systems, pump stations, corrosion, water quality, water and wastewater treatment

Courses: CE63, CE74

Credit Points: 12 Contact Hours: 3 per week

■ CEP200 PROCESS MODELLING

Role of models in engineering design and investigation. Principles of modelling techniques and their uses, limitations and relevant applications.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP215 ADVANCED TRAFFIC ENGINEERING

Traffic flow theory and traffic management. Analytical and computer analysis routines for urban intersection design, their background and applications.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP218 TRANSPORTATION ENGINEERING

Techniques for the appraisal of rural and urban area road systems, bus operations, airport design, construction and maintenance.

Courses: CE63, CE74

Credit Points: 12 Contact Hours: 3 per week

■ CEP276 ADVANCED TREATMENT PROCESSES

The design and operation of water and wastewater treatment plants, including conventional and alternative processes. Current practice and development.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP277 WASTE MANAGEMENT

Characteristics and analysis of solid wastes. Collection, storage, transportation, handling, recycling and disposal. Sources and characteristics of industrial liquid wastes. Treatment design methodology. Pilot scale modelling and investigation. Case studies of selected classes of industrial wastes.

Courses: CE63, CE74

Credit Points: 12 Contact Hours: 3 per week

■ CEP290 ENVIRONMENTAL LAW & ASSESSMENT

Introduction to environmental law. Commonwealth and State legislation. Development controls. Trends in environmental control. The framework for environmen-

tal assessment. Description of the environmental setting. Impact assessment and analysis.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP310 URBAN TRANSPORTATION PLANNING

Transportation planning applications; road needs, urban transport, local area planning. Macro land use/transportation and micro urban transportation models; urban transportation zone selection and data needs; trip generation; model splits; surveying.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP361 DRAINAGE ENGINEERING

Drainage engineering for municipal engineers, road and railway designers, irrigation and general civil engineers. Rainfall and runoff models, both rational and computer models; drainage hydraulics of roof, streets, pipes, open channels, retention basins, culverts and bridges; erosion, sedimentation aspects of drainage, costs, planning policies and the law.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

■ CEP491 MUNICIPAL ENGINEERING PRACTICE

A prescribed program of individual supervised study in a selected area within the field of municipal engineering, involving one or more major assignments together with appropriate tutorials.

Course: CE63

Credit Points: 16 Contact Hours: 4 per week

■ CEP998 PROJECT B

The student is required to investigate in depth a shorter approved topic than that required in CEP999. The results are presented in a major formal report.

Course: CE74

Credit Points: 20 Contact Hours: 5 per week

■ CEP999 PROJECT A

The student is required to investigate in depth a substantial approved topic within the range of civil engineering practice and to carry out design, computing, model or experimental design and construction, experimental work and testing. The results are presented in a major formal report.

Course: CE74

Credit Points: 36 Contact Hours: 9 per week

■ CET120 CIVIL SYSTEMS 1

Introduction to hardware and operating systems of personal computers. Wordprocessors, spreadsheets and databases used for civil engineering applications. Introduction to high level languages using FORTRAN or PASCAL as an example.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

■ CET135 ENGINEERING MECHANICS

Equilibrium of forces and moments, reactions, free body diagrams, truss analysis, shear force and bending moment diagrams.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

■ CET180 CIVIL DRAFTING PRACTICE A

Short, practical exercises in drafting. Lettering, linework, layout, orthographic presentation.

Course: CE21

Credit Points: 3 Contact Hours: 2 per week

■ CET190 CIVIL ENGINEERING MATERIALS

Properties of common ferrous and nonferrous metals

and alloys, timber, plastics, bitumen and asphaltic concrete relating to their use by civil engineers. Study of welding processes and defects, corrosion mechanisms and prevention for metals. Quality control and selection of engineering materials.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

■ CET195 CIVIL ENGINEERING

Civil engineering: the profession, organisation and work options. Measurement in civil engineering, maintenance of standards, role of NML and NATA. Technical writing, reports, letters, etc. Mathematical techniques applicable to relevant examples.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

■ CET235 LABORATORY PRACTICE A

The type and role of laboratories in civil engineering. NATA registration and calibration requirements. Quality control and assurance, basic statistics. Basic measuring equipment and techniques; associated calculations. Presentation of data in reports. Laboratory work in materials and hydraulic engineering to demonstrate measuring techniques.

Course: CE21 Co-requisites: CET365, CET435

Credit Points: 3 Contact Hours: 2 per week

■ CET255 STRUCTURAL MECHANICS

Deflections, stress, direct flexure, and shear in beams and shafts. Combined stress conditions.

Course: CE21

Prerequisite: CET135

Credit Points: 7 Contact Hours: 3 per week

■ CET286 CIVIL OFFICE PRACTICE

Preparation and layout of civil engineering drawings; design office procedures including methods of data manipulation, presentation and checking. Drafting office organisation and management.

Course: CE21

Prerequisite: MET120

Credit Points: 7 Contact Hours: 3 per week

■ CET287 CIVIL OFFICE PRACTICE A

Applied civil engineering design drafting/drawing. Use of field data in preparation of plans.

Course: CE21

Prerequisite: MET120

Co-requisite: CET286

Credit Points: 3 Contact Hours: 2 per week

■ CET306 FIELD PRACTICE 1A

Setting out, as-built surveys and drawings, photography and field sketching; field measurement and sampling in water, soils and materials; implications of field measurements on design and construction.

Course: CE21

Prerequisites: CET365, PST901

Co-requisite: CET775

Credit Points: 3 Contact Hours: 2 per week

■ CET365 HYDRAULIC ENGINEERING

Fluids, simple hydrostatics, fundamental characteristics and equations of fluid flow, pipe and open channel flow, hydraulic measurements. Laboratory work on fluid behaviour and instrumentation.

Course: CE21

Prerequisite: CET135

Credit Points: 7 Contact Hours: 3 per week

■ CET387 CIVIL ENGINEERING DRAFTING A
Municipal engineering design drawings for roadworks. Stormwater drainage designs and drawings.

Course: CE21

Prerequisite: CET286

Co-requisite: CET585

Credit Points: 3 Contact Hours: 2 per week

■ CET405 FIELD PRACTICE 2A

Field visits and laboratory workshops on many aspects of civil engineering construction.

Course: CE21

Credit Points: 3

Contact Hours: 2 per week

■ CET420 CIVIL SYSTEMS 2

Computer file management, error recovery, networking, software installations and data acquisition, civil engineering software applications.

Course: CE21

Prerequisite: CET120

Credit Points: 7

Contact Hours: 3 per week

■ CET435 CONCRETE PRACTICE

Raw materials, cements, aggregates, additives and admixtures. Plastic and hardened concrete. Testing and quality control. Mix design, concrete manufacturing and transportation, construction procedures.

Course: CE21

Credit Points: 7

Contact Hours: 3 per week

■ CET495 PROJECT A

Undertake a substantial project in the student's chosen field. Involves the investigation of the topic, performance of the tests, design calculations, drawings and submission of a comprehensive report.

Course: CE21

Prerequisites: Student must be in final year.

Credit Points: 3

Contact Hours: 2 per week

■ CET565 ROAD & DRAINAGE ENGINEERING

Road construction and maintenance, pavement types, surfacing, maintenance, design and construction. Road drainage principles, design and construction of urban and rural culverts, urban stormwater drainage.

Course: CE21

Prerequisites: CET365, CET645, CET815

Credit Points: 7

Contact Hours: 3 per week

■ CET585 CIVIL ENGINEERING DRAFTING

Preparation of municipal engineering drawings including roadworks and stormwater drainage. State and local authority standards. Projects involve varying amounts of design computations and computer usage. Quantity take-off, bills of quantities, cost estimates and cross referencing between drawings, bills of quantities and specifications.

Course: CE21

Prerequisite: CET286

Co-requisite: CET565

Credit Points: 7

Contact Hours: 3 per week

■ CET598 PROJECT 2

An individually designed program including designs, reports and investigations of sanitary engineering.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 21

Contact Hours: 9 per week

■ CET606 CONSTRUCTION MANAGEMENT

Construction planning, organisational structure, construction reporting, contract management, human relations, civil engineering plant hire.

Course: CE21

Credit Points: 7

Contact Hours: 3 per week

■ CET645 SOIL MECHANICS

Identification and classification of soils; testing methods. Compaction of soil, soil permeability, effective and total stress, shear strength and compressibility. Introduction to retaining walls, bearing capacity, CBR testing, in situ sampling and testing.

Course: CE21

Prerequisite: CET894

Credit Points: 7

Contact Hours: 3 per week

■ CET655 CONCRETE & STEEL DESIGN

Principles of structural design. Design in structural steel, detailing of elements and connections. Design of concrete members, detailing of elements.

Course: CE21

Prerequisites: CET135, CET255, CET435
Credit Points: 7 **Contact Hours:** 3 per week

■ CET703 CIVIL ENGINEERING PRACTICE 1

Current topics in a specified area of civil engineering practice at a level appropriate to the course and as approved by the Head of School. The content of this unit may be changed from semester to semester depending on demand and available staff.

Course: CE21

Prerequisites: Units totalling 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET704 CIVIL CONSTRUCTION PRACTICE

Principles of temporary works design; formwork, false work, scaffolding, shoring, de-watering, excavation and earthworks, civil engineering plant; the Construction Safety Act and Regulations.

Course: CE21

Credit Points: 7 **Contact Hours:** 3 per week

■ CET707 MUNICIPAL ENGINEERING

Structures and function of local authorities, legislation, municipal road and street construction, design offices, traffic management, parking, town planning and subdivision, solid waste management, building practice, other municipal engineering aspects, field trip to local authority facilities.

Course: CE21

Prerequisite: CET815

Co-requisites: CET565, CET775

Credit Points: 7 **Contact Hours:** 3 per week

■ CET708 SPECIFICATIONS & ESTIMATES

General conditions of contract, arbitration, annexures, specifications, special provisions. Types of estimates. Mechanics of estimating, computer applications.

Course: CE21

Credit Points: 7 **Contact Hours:** 3 per week

■ CET735 ADVANCED LABORATORY TESTING 1

Testing work to give experience with a range of equipment and testing procedures. Includes field and laboratory testing in a number of selected areas.

Course: CE21

Credit Points: 7 **Contact Hours:** 3 per week

■ CET756 BUILDING CONSTRUCTION PRACTICE

Practical aspects associated with reinforced, prestressed concrete (in situ and precast). Steel construction, aspects of fabrication and erection. Clay brick and concrete masonry construction including cladding. Overview of building regulations.

Course: CE21

Prerequisite: CET190

Credit Points: 7 **Contact Hours:** 3 per week

■ CET775 PUBLIC HEALTH ENGINEERING

Water supply and sewerage systems, water sources, demand, water and wastewater treatment, water quality, treatment plants, swimming pools, laboratory analysis and field visits to treatment plants.

Course: CE21

Prerequisite: CET365

Credit Points: 7 **Contact Hours:** 3 per week

■ CET776 EQUIPMENT OPERATION & MAINTENANCE

Principles and practice of the operation and maintenance of equipment in water and wastewater treatment plants. Overview of plant; motors, engines, pumps, compressors and generators; rotary and rectilinear scraping and raking mechanisms; chemical handling, mixing, dosing; safety and maintenance scheduling for specific equipment items.

Course: CE21 **Prerequisites:** CET365, CHA140
Credit Points: 7 **Contact Hours:** 3 per week

■ CET777 PROCESS OPERATION & CONTROL 1

Principles and processes of water and wastewater treatment, with reference to their operation. The methods of operational control of these processes.

Course: CE21

Prerequisites: CET365, CET775, CHA140

Credit Points: 7 **Contact Hours:** 3 per week

■ CET787 STRUCTURAL ENGINEERING DRAWING

Structural engineering drawings covering basic steel work and reinforced concrete works. Reinforcing schedules together with details of steel connections.

Course: CE21

Prerequisites: CET286, CET585, CET655, MET120

Credit Points: 7 **Contact Hours:** 3 per week

■ CET797 PROJECT 1

Students undertake a substantial project in their chosen field. Involves the investigation of the topic, performance of tests, design calculations, drawings, etc. and submission of comprehensive report.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET802 CIVIL ENGINEERING PRACTICE 2

See CET703.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET815 ROAD LOCATION & DESIGN

Road location principles, road design and geometry including computer applications; subdivision and subdivision street design; introduction to traffic engineering; intersection design.

Course: CE21

Credit Points: 7 **Contact Hours:** 3 per week

■ CET838 ADVANCED LABORATORY TESTING 2

Testing projects undertaken in specialist areas and presented as major reports.

Course: CE21

Credit Points: 7 **Contact Hours:** 3 per week

■ CET856 ADVANCED CONSTRUCTION TECHNIQUES

History of construction; planning and programming including critical path analysis and resource levelling; contracts; crane selection and safety; case studies; detailed and 'fast' estimating techniques.

Course: CE21

Prerequisite: CET606

Credit Points: 7 **Contact Hours:** 3 per week

■ CET876 PLANT OPERATION & MAINTENANCE

Operation and maintenance of water quality treatment plants; scheduling, labour control, workshop organisation, safety, training, performance monitoring.

Course: CE21

Prerequisite: CET606

Co-requisite: CET776

Credit Points: 7 **Contact Hours:** 3 per week

■ CET877 PROCESS OPERATION & CONTROL 2

Unit processes of water and wastewater treatment with particular reference to their operation. The methods of operational control of these processes.

Course: CE21

Prerequisite: CET777

Credit Points: 7 **Contact Hours:** 3 per week

■ CET887 COMPUTER AIDED DRAFTING

Using mainframe and personal computers for civil and structural drawing presentations. Output from computer design programs as examples. Software usage and limitations, plan compilation and output.

Course: CE21

Prerequisite: CET286

Credit Points: 7

Contact Hours: 3 per week

■ CET888 STRUCTURAL DRAWING & DESIGN

Minor structural design and layout are undertaken. Preparation of advanced structural engineering drawings covering steel, reinforced and prestressed concrete and timber where geometric and physical restraints interact with the structural design process.

Course: CE21

Prerequisites: CET286, MET120

Co-requisites: CET585, CET655, CET787

Credit Points: 7

Contact Hours: 3 per week

■ CET894 COMPUTATIONS A

Calculations involving aspects of civil and structural engineering. Computer aided design. Use of planimeters. Technical reports.

Course: CE21

Co-requisite: PST901

Credit Points: 3

Contact Hours: 2 per week

■ CHA111 LABORATORY TECHNIQUES

Introduces safe and proficient procedures in the laboratory, and gives practice in the manipulation of common elementary laboratory apparatus, equipment and reagents; on completion the student should be able to handle, correctly and safely, all the basic pieces of laboratory equipment and be familiar with their main functions and limitations.

Course: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ CHA145 INTRODUCTORY CHEMISTRY

An integrated course of fundamental chemistry covering: the nature of chemistry, atomic molecular and nuclear structure, bonding and types of bonds; the structure and nature of matter, molecular formulae, atomic and molecular weights; the periodic classification; reduction/oxidation, chemical equilibria; liquids and solutions and simple phase equilibria; equilibria in electrolyte solutions; pH and its measurement. Carbon chemistry and functional groups. The chemistry and properties of some common laboratory chemicals. Practical applications are emphasised.

Courses: CE21, EE21, SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ CHA218 ANALYTICAL CHEMISTRY 1

A lecture and laboratory program on the theory and techniques of titrimetric and gravimetric analysis.

Course: SC10, SC12

Prerequisite: CHA111

Credit Points: 8

Contact Hours: 3 per week

■ CHA219 QUALITATIVE ANALYSIS

The behaviour of a range of common cations and anions towards common laboratory reagents. These reactions form the basis of procedures for the separation and identification of these cations and anions. Qualitative testing for elements in organic molecules together with test procedures for qualitative identification of functional groups in organic molecules.

Course: SC10, SC12

Prerequisite: CHA111

Credit Points: 6

Contact Hours: 3 per week

■ CHA230 CHEMISTRY OF INORGANIC MATERIALS

An extension of the basic atomic and molecular theory introduced in CHA145 to include atomic orbitals, orbital shapes and quantum numbers; radioactive break-

down and applications; banding, molecular orbitals; hybridisation, shapes of simple molecules relating to their properties; simple coordination chemistry. The occurrence, extraction/manufacture, properties and uses of the elements and the important inorganic compounds derived from a selection of members of the chemical groups.

Course: SC10, SC12

Prerequisite: CHA145

Credit Points: 4

Contact Hours: 2 per week

■ CHA240 INSTRUMENTAL TECHNIQUES

An overview of the principles and practice of modern instrumental analysis, including the nature of electromagnetic radiation and its interaction with matter; use of visible, UV and IR spectroscopy; emission and absorption phenomena; chromatographic techniques and electroanalytical methods.

Course: SC10, SC12

Prerequisite: CHA111

Credit Points: 8

Contact Hours: 3 per week

■ CHA250 ORGANIC CHEMISTRY 1

An introduction to functional group chemistry including hydrocarbons, aromatic compounds, organic halides, alcohols, phenols and ethers and also an introduction to the use of infrared spectroscopy to indicate the presence of particular functional groups.

Course: SC10, SC12

Prerequisite: CHA145

Credit Points: 8

Contact Hours: 3 per week

■ CHA270 PHYSICAL CHEMISTRY 1

The first part of an integrated syllabus of physical chemistry; the fundamental aspects of chemical energetics, solution chemistry, equilibria; practical applications.

Course: SC10, SC12

Prerequisite: CHA145

Credit Points: 8

Contact Hours: 3 per week

■ CHA318 INSTRUMENTAL ANALYTICAL CHEMISTRY

A course of lectures and practical work introducing the principles and practices of mass spectrometry, fluorescence spectroscopy and ICP together with further development of selected topics from CHA240.

Course: SC10, SC12

Prerequisites: CHA218, CHA240

Co-requisite: CHA319

Credit Points: 8

Contact Hours: 4 per week

■ CHA319 ANALYTICAL CHEMISTRY 2

Lectures and practical work are designed to develop further the basic titrimetric and gravimetric analysis principles introduced in CHA218. The program features the analysis of commercial materials with emphasis on sample dissolution techniques.

Course: SC10, SC12

Prerequisite: CHA218

Credit Points: 6

Contact Hours: 3 per week

■ CHA320 CHEMICAL PROCESS PRINCIPLES 1

Chemical reactors both homogeneous and heterogeneous, unit operations: transport preparation and separation of materials and material and energy balances in chemical processes.

Course: SC10, SC12

Prerequisite: CHA270

Co-requisite: CHA370

Credit Points: 8

Contact Hours: 3 per week

■ CHA350 ORGANIC CHEMISTRY 2

Continues the study of functional groups and includes carbonyl compounds, carboxylic acids and their derivatives, organic nitrogen compounds, including heterocycles, as well as selected polyfunctional compounds such as triglycerides, amino acids and proteins. Further uses of infrared spectroscopy.

Course: SC10, SC12

Prerequisite: CHA250

Credit Points: 8

Contact Hours: 3 per week

■ CHA368 INDUSTRIAL CHEMISTRY

The basic aspects of product and quality control, the underlying fundamental chemistry and the chemical technology involved in, for example, the petroleum and petrochemical industry, the polymer, plastic and adhesive industries, the paint industry, the textile industry, the sugar industry, water treatment plants, the glass and ceramics industry, and the cement industry. Field trips are an integral part of this unit.

Course: SC10, SC12

Prerequisites: CHA230, CHA250, CHA320

Credit Points: 8 Contact Hours: 3 per week

■ CHA370 PHYSICAL CHEMISTRY 2

The second part of the integrated syllabus of physical chemistry: chemical kinetics, surface chemistry and elementary electrochemistry.

Course: SC10, SC12

Prerequisite: CHA270

Credit Points: 6 Contact Hours: 2 per week

■ CHA410 COMPUTERS IN CHEMISTRY

The use of computers in various aspects of the chemical industry, both in laboratory and plant. The different approaches to laboratory automation and a detailed study of computer control in a selected industry. Field trips are included.

Course: SC10, SC12

Prerequisite: CSA259

Credit Points: 8 Contact Hours: 3 per week

■ CHA442 INTRODUCTION TO OCCUPATIONAL SAFETY

Basic first aid relevant to laboratory, plant and field situations; principles and practice of safe handling of common laboratory chemicals; safety aspects of laboratory design.

Course: SC10, SC12

Credit Points: 4 Contact Hours: 2 per week

■ CHA550 ORGANIC CHEMISTRY 3

The chemistry and uses of organic compounds encountered in industry, such as agricultural chemicals, fats and oils, waxes, detergents, dyes, drugs, elastomers, fibres, adhesives and cellulose derivatives.

Course: SC10, SC12

Prerequisite: CHA350

Credit Points: 8 Contact Hours: 3 per week

■ CHA610 INDUSTRIAL ANALYSIS

A course involving the use of both qualitative (semi-micro) and quantitative techniques in the analysis of commercially important materials, including ores, cement, fertiliser, fats, oils and sugar products.

Course: SC10, SC12

Prerequisites: CHA318, CHA319

Credit Points: 8 Contact Hours: 3 per week

■ CHA670 PHYSICAL CHEMISTRY 3

The third part of the integrated syllabus of physical chemistry: covers the areas of applied electrochemistry, corrosion, distillation and extraction. Practical applications are emphasised.

Course: SC10, SC12

Prerequisite: CHA370

Credit Points: 8 Contact Hours: 3 per week

■ CHB001 INTRODUCTORY CHEMISTRY

For students without a pass in Senior Chemistry. Scientific measurement, atomic structure, periodic table, chemical equations, stoichiometry and calculations, chemical bonding, chemical reactivity, acids and bases, redox systems, matter, thermodynamics, enthalpy, heat of reactions, organic chemistry.

Courses: PU49, SC30

Credit Points: 6 Contact Hours: 3 per week

■ CHB002 INTRODUCTION TO ENGINEERING CHEMISTRY

The foundations of the principles of chemistry; the

basic concepts of stoichiometry; properties of the elements of the periodic table; chemical equilibria, acids and bases; offered for engineering students without sound achievement in chemistry and serves as the foundation for CHB344 and CHB346.

Courses: CE31, CE42, EE43, ME45

Credit Points: 2 Contact Hours: 1 per week

■ CHB142 CHEMISTRY 1

Atomic theory and chemical bonding. Inorganic chemistry: classification of inorganic compounds; nomenclature and chemical reactions of selected inorganic compounds; safety and material safety data sheets; equations and calculations. Chemical analysis: acidimetry and alkametry, indicators, redox, precipitometry, accuracy, precision. Physical chemistry: aqueous solutions and biological systems; colloids and body fluids; redox processes and their application to life science. Organic chemistry: introductory organic chemistry including the essential function of organic compounds in biological systems, concepts of frameworks and functional groups, naming organic compounds, the principle types of reactions in organic chemistry.

Courses: LS36, OP42, PU42, PU44, PU45, SC30

Credit Points: 12 Contact Hours: 6 per week

■ CHB149 PRINCIPLES OF CHEMISTRY

For students without a pass in senior chemistry this unit combines introductory chemistry with an introduction to laboratory techniques and practice in the manipulation of common elementary laboratory apparatus, equipment and reagents.

Course: PU49

Credit Points: 12 Contact Hours: 6 per week

■ CHB173 CHEMISTRY 1A

States of matter: gases, liquids, solids; kinetic theory of gases, real gases; thermodynamics: forms of energy, work and heat; thermochemistry, enthalpies of formation, combination, etc. thermochemical calculations; entropy, force energy, spontaneity of reactions; equilibria: equilibrium constants, homogeneous and heterogeneous equilibria; ionic equilibria - acids and bases, pH, buffer solutions, acid-base titrations; kinetics: rates of chemical processes, dependence of rate on concentration, order of reaction, integrated rate equations; experimental methods; temperature dependence of rate constant; catalysis; conductance: introduction to electrochemistry; bonding theory and foundations of spectroscopy: quantum theory, classical mechanics; the dynamics of microscopic systems, Schrodinger equation, translational, rotational and vibrational motions; atomic spectra and structure, quantum numbers and orbitals, electron spin.

Course: CH32

Prerequisites: Year 12 Chemistry - Sound Achievement or CHB001

Credit Points: 12 Contact Hours: 6 per week

■ CHB182 CHEMISTRY 1

Chemical stoichiometry; thermochemistry; atomic structure; chemical bonding; chemical reactions; carbon compounds; states of matter; chemical equilibrium; acids and bases; ions and ionic equilibria.

Courses: ED50, SC30

Prerequisites: Year 12 Chemistry - Sound Achievement or CHB001.

Credit Points: 12 Contact Hours: 6 per week

■ CHB183 CHEMISTRY 1B

Fundamental studies in two of the three sub-discipline areas of chemistry - inorganic chemistry and organic chemistry; the periodic table; acids, bases and salts;

chemical reactions and stoichiometry; chemistry of hydrogen; chemistry of oxygen; principles of bonding in compounds of carbon; structural and electrical effects in compounds of carbon; chemical reactivity of organic molecules; radical reactions of organic hydrocarbons; mechanism and industrial significance, halocarbons and industrial solvents; addition reactions of alkenes, mechanism and industrial significance, polymers and plastics.

Course: CH32

Prerequisites: Year 12 Chemistry – Sound achievement or CHB001

Credit Points: 12 **Contact Hours:** 6 per week

■ CHB213 CONCEPTS OF ANALYTICAL CHEMISTRY

Scope and limitation of analytical chemistry; role of analytical chemistry in society and technology; laboratory equipment and safety; chemical safety; types of analyses; analytical methodology; data handling; an overview of advanced analytical techniques.

Courses: CH32, ED50, SC30

Prerequisites: CHB173 or CHB182

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB242 CHEMISTRY 2

Physical chemistry: Calorie counting – the underlying principle, first and second laws of thermodynamics; gases and respiration, Boyle's Law and the breathing process, Charles' Law, Henry's Law and oxygen hyperbaric therapy, Graham's Law; Speed control of chemical and biochemical processes. Inorganic chemistry: biologically important inorganic compounds, salts, co-ordination compounds and phosphate esters. Organic chemistry: the chemistry of hydrocarbons, stereochemistry, functional group chemistry, polyfunctional compounds, biologically important organic compounds including sugars, polycarboxylic acids, lipids, peptides and proteins, heterocyclic compounds.

Courses: LS36, OP42, PU42, PU44, SC30

Prerequisite: CHB142

Credit Points: 12 **Contact Hours:** 6 per week
Incompatible with: CHB182

■ CHB253 CHEMISTRY 2B

Builds on the fundamental concepts studied in Chemistry 1B CHB183 and develops a knowledge of organic mechanism as a tool for understanding the nature of organic chemical change; the use of modern spectroscopic techniques in structure elucidation.

Course: CH32

Prerequisite: CHB183

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB259 ORGANIC CHEMISTRY

The chemistry of carbon; covalent bonding; families of organic compounds, their properties and reactions; bio-molecules and polymers, carbohydrates, lipids, proteins, enzymes.

Course: PU49

Prerequisite: CHB001

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB282 CHEMISTRY 2

Atomic structure; chemical bonding; thermodynamics; oxidation and reduction; electrochemistry; coordination chemistry; metals, metallurgy, transition elements; silicon, silicates, semiconductors; stereochemistry and optical activity; alcohols, phenols, ethers, amines; aldehydes and ketones, carboxylic acids and functional derivatives of carboxylic acids; infrared spectroscopy.

Courses: ED50, SC30

Prerequisite: CHB182

Credit Points: 12 **Contact Hours:** 6 per week

■ CHB283 CHEMISTRY 2A

Continuation of the fundamental studies already commenced in two of the three sub-discipline areas of chemistry. Thermodynamics; surface chemistry; equilibrium electrochemistry; liquids and solutions; the Phase Rule. Chemistry of non metals; chemistry of metals; coordination chemistry; nuclear chemistry.

Course: CH32

Prerequisites: CHB173, CHB183, MAB212, PHB122

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB289 ORGANIC & PHYSICAL CHEMISTRY

Physical chemistry: Calorie counting – the underlying principle, first and second laws of thermodynamics; gases and respiration, Boyle's Law and the breathing process, Charles Law, Henry's Law and oxygen hyperbaric therapy, Graham's Law; Speed control of chemical and biochemical processes. Organic chemistry: the chemistry of hydrocarbons, stereochemistry, functional group chemistry, polyfunctional compounds, biologically important organic compounds including sugars, polycarboxylic acids, lipids, peptides and proteins, heterocyclic compounds.

Course: PU45

Prerequisite: CHB142

Credit Points: 8 **Contact Hours:** 4 per week

Incompatible with: CHB242, CHB282

■ CHB292 APPLIED SCIENCE FOR DESIGNERS 2

Chemistry for environmental design; basic chemical properties of common materials, natural and artificial; chemical processes in buildings and artefacts.

Course: BN30

Credit Points: 4 **Contact Hours:** 2 per week

■ CHB313 ANALYTICAL CHEMISTRY 3

Analytical techniques including volumetric glassware, basic laboratory equipment, laboratory balances (top-pan and analytical), sampling, sample dissolution principles; neutralimetry; redoximetry; precipitometry; compleximetry; gravimetry; treatment of results; instrumental methods.

Courses: CH32, ED50, SC30

Prerequisites: CHB253, CHB282 or CHB283

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB333 INORGANIC CHEMISTRY 3

Coordination chemistry; bonding and structure of metal complexes including crystal field theory and valence bond theory; an introduction to group theory; spectroscopic terms; solution chemistry - the structure of water; aqueous solutions; inorganic properties of water; distribution diagrams; hydrolysis; EH/pH diagrams; bioinorganic chemistry - biological significance of ligands and metals; HSAB theory; complex equilibria; applications with examples of selected bioinorganic systems - proteins, haem, etc.; chemistry of lanthanides and actinides; chemistry of selected non-metals; chemistry of precious metals.

Courses: CH32, ED50, SC30

Prerequisites: CHB282 or CHB283

Credit Points: 12 **Contact Hours:** 5 per week

■ CHB344 ENGINEERING CHEMISTRY M

Specialised chemistry unit designed for mechanical engineers; includes fuels and their combustion; the chemistry of lubricants and lubrication; corrosion and its prevention and water treatment processes.

Course: ME45

Prerequisites: CHB002 or equivalent

Credit Points: 4 **Contact Hours:** 2 per week

■ CHB346 ENGINEERING CHEMISTRY C

Specialised chemistry unit designed for civil engineers

and includes such topics as PH control; the chemistry of materials; polymers and composites; corrosion and its prevention.

Course: CE42 **Prerequisites:** CHB002 or equivalent
Credit Points: 4 **Contact Hours:** 2 per week

■ CHB352 ORGANIC CHEMISTRY 3

Fundamentals of organic reactions; major mechanistic classes, nucleophilic substitution, elimination, electrophilic addition, nucleophilic addition, electrophilic substitution; ultraviolet spectroscopy: electronic transitions, chromophores, bathochromic and hypsochromic shifts, sampling; infrared spectroscopy: classification of vibrations, effects of: molecular association, conjugation, cumulation, a-halogens, ring and steric strain. Sampling; nuclear magnetic resonance - basic principles, classification of nuclei, the shielding constant. ¹H spectra, areas and integrals, chemical shifts and coupling. Sampling.

Courses: ED50, SC30 **Prerequisite:** CHB282
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB353 ORGANIC CHEMISTRY 3A

The chemistry of carboxylic acids and their functional derivatives, carbanion chemistry including aldol and Claisen condensations; optical and geometrical isomers, stereochemical formulae, the sequence rules and nomenclature, the polarimeter and specific rotation; conformation of ethane, butane, small rings, cyclohexane and substituted cyclohexanes; ultraviolet spectroscopy; infrared spectroscopy; nuclear magnetic resonance.

Course: CH32 **Prerequisites:** CHB183, CHB283
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB372 PHYSICAL CHEMISTRY 3

Equilibrium electrochemistry: models of the electrified interface, absolute electrode potential. Ionic absorption, electrocapillary curves, surface excess, molecular adsorption; phase rule; derivation of phase rule, applications to one component, binary, condensed and ternary systems; thermodynamics: second and third laws; free energy and chemical equilibrium ideal systems; chemical kinetics: order and molecularity of reactions, temperature effects. Reaction rate theories, complex reactions; bonding theory: orbitales and energies of the hydrogen atom; many electron atoms, molecular orbitales; spectroscopy: interaction of radiation with matter. Principles, instrumental design and applications of rotational, vibrational and electronic spectroscopy.

Courses: ED50, SC30
Prerequisites: CHB282 or CHB283
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB373 PHYSICAL CHEMISTRY 3A

Equilibrium electrochemistry; applied phase chemistry; applied thermodynamics: 2nd and 3rd laws; kinetics: complex reactions, mechanisms; spectroscopy: interaction of radiation with matter.

Course: CH32 **Prerequisites:** CHB282 or CHB283
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB382 CHEMISTRY 3

Biochemical relevance of pH; instrumental analytical techniques used in the pathology laboratory; the coordination chemistry of biological systems; dyes and stains; thermodynamics and kinetics.

Course: LS36 **Prerequisites:** CHB142, CHB242
Credit Points: 4 **Contact Hours:** 2 per week

■ CHB402 CHEMICALS IN SOCIETY

An introduction to the role of chemistry and its products in our society. Historical and societal aspects are incorporated in the study of a number of relevant applications of chemistry in consumer products. Topics

include: chemical hazards, drugs and medicine, water purity, food chemistry, synthetic substances and resources and the environment.

Courses: ED50 only
Prerequisites: CHB001 or equivalent
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB411 ENVIRONMENTAL ANALYTICAL CHEMISTRY

Lectures and practicals in the biological sciences dealing with the principles and application of sampling, and electrometric/spectroscopic/flame separation to the analysis of materials from the biosphere.

Courses: PU42, PU44, SC3
Prerequisites: CHB242 or CHB282
Credit Points: 8 **Contact Hours:** 4 per week
Incompatible with: A major in Chemistry or CHB313

■ CHB423 CHEMICAL TECHNOLOGY 4

The chemical industry; process flowsheets; sources and interpretation of data; industrial stoichiometry; material and energy balance calculations for both principles of particle mechanics and their applications in solids handling, crushing and grinding; classification; solid-liquid separation operations; solid-fluid contacting operations; fluid mechanics and their applications in storage, transport, mixing and dispersing operations; liquid-liquid extraction operations.

Courses: CH32, ED50, SC30
Prerequisites: PHB122, (CHB373 or CHB372)
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB453 ORGANIC CHEMISTRY 4

A critical analysis of the chemistry of five and six-membered heterocyclic systems with a single hetero atom; preparation, stability and applications to organo synthesis of the main group organometallic compounds; rearrangement reactions which involve 1, 2-shifts to electron-deficient elements; principles and practice of thin-layer chromatography, gas-liquid and high performance liquid chromatography in the separation and analysis of organic compounds.

Courses: CH32, ED50, SC30
Prerequisites: CHB352 or CHB353
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB466 ENVIRONMENTAL CHEMISTRY

An introduction to environmental chemistry for engineers. Introduces chemistry of environmental processes in atmosphere and hydrosphere. Effects of pollutants on the environment. Review of analytical techniques. Global issues including greenhouse, acid rain and ozone depletion.

Course: CE42
Credit Points: 6 **Contact Hours:** 3 per week

■ CHB473 PHYSICAL CHEMISTRY 4

Thermodynamics; surface chemistry; dynamic electrochemistry; chemical kinetics.

Courses: CH32, ED50, SC30
Prerequisites: CHB372 or CHB373
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB513 INSTRUMENTAL ANALYSIS 5

Quality assurance, data analysis, trace analysis, methods reliability, accuracy, precision, sensitivity, selectivity, limit of detection, comparative studies; atomic spectroscopy, theory and instrumentation; mass spectrometry, introductory theory and instrumentation; liquid chromatography, ion chromatography, practices and principles.

Courses: CH32, SC30
Prerequisites: CHB313, CHB372, CHB373, CHB453
Credit Points: 12 **Contact Hours:** 5 per week

■ CHB523 CHEMICAL TECHNOLOGY 5

Principles of heat transfer and their applications in heat exchange and evaporation operations; distillation; principles of mass transfer in gas absorption psychrometric, drying and membrane operations; sources of chemicals, petrochemical processes, hydrogen economy; chemical engineering process analysis and its applications to industrial processes; topics include: equilibrium thermodynamics and kinetics, ideal reactors, reactor design.

Courses: CH32, SC30

Prerequisites: CHB423, CHB473

Credit Points: 12 Contact Hours: 5 per week

■ CHB533 INORGANIC CHEMISTRY 5

Chemistry of selected metalloids; organometallic chemistry; inorganic reaction mechanisms; special interest metals; development of principles of group theory; symmetry operations and inorganic IR spectra; UV-visible spectra; bioinorganic chemistry of special molecules; lasers and inorganic chemistry.

Courses: CH32, SC30

Prerequisite: CHB333

Credit Points: 12 Contact Hours: 5 per week

■ CHB553 ORGANIC CHEMISTRY 5

Principles of retrosynthesis, concepts of functional group equivalence and interconversions, disconnections, synthons, strategy and tactics, selectivity and control, protecting groups. Synthesis of the major classes of organic compounds, including difunctional compounds, by carbon-carbon bond formation. Selectivity in oxidation and reduction. Introduction to the use of computers in synthesis design. Sources of raw materials for organic chemicals preparation of synthesis ('syn') gas, chemical conversions using syn gas, reactions of alkenes and aromatic feedstocks to produce common chemicals, preparation and chemistry of polymers, the industrial preparation of selected pharmaceuticals.

Courses: CH32, SC30

Prerequisite: CHB453

Credit Points: 12 Contact Hours: 5 per week

■ CHB573 PHYSICAL CHEMISTRY 5

Kinetics; colloid chemistry; phase equilibria; quantum mechanics; statistical mechanics.

Courses: CH32, SC30

Prerequisite: CHB473

Credit Points: 12 Contact Hours: 5 per week

■ CHB603 PROJECT

A variety of chemical problems reflecting teaching, research and consultancy interest of the staff.

Courses: CH32, SC30

Prerequisites: One of CHB573, CHB553 or CHB533 + CHB513 or CHB523

Credit Points: 12 Contact Hours: 5 per week

■ CHB613 INSTRUMENTAL ANALYSIS 6

Instrumental analysis including the principles and practices of XRF, thermal analysis, electrometric methods including voltammetry, amperometry; data acquisition, methods of automated analysis, flow-based analysers, robotics, computer networks, laboratory information management systems, chemical databases; chemometrics, optimisation techniques, multiple regressions, advanced quality assurance, inter-laboratory comparisons; computer interfacing, microprocessor controlled instruments, A-D/D-A converters, I/O methods including polling, interrupt techniques, direct memory access.

Courses: CH32, SC30

Prerequisite: CHB513

Credit Points: 12 Contact Hours: 5 per week

■ CHB623 CHEMICAL TECHNOLOGY 6

Economic concepts, engineering costing, profitability evaluation, investment decision making, process eco-

nomic appraisal using network analysis, optimisation using linear, non-linear, and dynamic programming. Steady-state process analysis, simulation and design, with the aid of ASPEN software system; modelling process flow-sheets and chemical reactors; case study problem solving using ASPEN.

Courses: CH32, SC30

Prerequisite: CHB523

Credit Points: 12 Contact Hours: 5 per week

■ CHB643 APPLIED SPECTROSCOPY

Nuclear magnetic resonance spectroscopy; vibrational spectroscopy; remote spectroscopy; UV/vis and fluorescence spectroscopies.

Courses: CH32, ED50, SC30

Prerequisites: CHB372 or CHB373 + (CHB352 or CHB353)

Credit Points: 12 Contact Hours: 5 per week

■ CHB653 APPLIED BIOLOGICAL CHEMISTRY

The emerging importance of secondary plant metabolites in medicine; the main biosynthetic pathways leading to secondary plant metabolites; mechanistic aspects of enzyme reactions and the importance of phosphate; a detailed study of a selection from the main biosynthetic pathways; structural determination and synthesis of selected secondary metabolites.

Courses: CH32, SC30

Prerequisite: CHB553

Credit Points: 12 Contact Hours: 5 per week

■ CHB663 ENVIRONMENTAL CHEMISTRY

Toxicology; water quality, its assessment; modelling reactions in water bodies; air quality; criteria pollutants and health effects; indoor pollutants; monitoring; dispersion of pollutants; control techniques.

Courses: CH32, ED50, SC30

Prerequisites: CHB372 or CHB373

Credit Points: 12 Contact Hours: 5 per week

■ CHB693 MATERIALS CHEMISTRY

Properties of materials; metals and alloys; metallic corrosion; crystalline materials; cements, ceramics and glasses; polymers.

Courses: CH32, ED50, SC30

Prerequisite: CHB473

Credit Points: 12 Contact Hours: 5 per week

■ CHB700 RESEARCH PROJECT

All students undertaking Honours are required to select and undertake, in consultation with a supervisor, a substantial project in an appropriate area. Each project is assessed on the basis of an extensive written report and an oral presentation.

Course: SC60

Credit Points: 48

■ CHB701 COMPLEMENTARY STUDIES FOR CHEMISTS

Studies may include a selection from: participation in research seminars; oral communication skills; written communication skills; formal coursework in occupational health and safety, scientific and industrial ethics, development of research management strategies; and coursework material from other accredited courses as directed by the course coordinator and Head of School.

Course: SC60

Credit Points: 8

■ CHB740 ELECTIVE STUDIES 1

Advanced studies on a topic of particular relevance to the student's research project; topics studied are normally in specific areas of physical chemistry, analytical chemistry, inorganic chemistry or organic chemistry. A supervised reading program is involved and the unit may also include a formal lecture program. Relevant material from other accredited courses may be included as part or all of the requirement for this unit

as directed by the Course Coordinator and Head of School.

Course: SC60

Credit Points: 6 Contact Hours: 2 per week

■ CHB780 ADVANCED TOPICS IN CHEMISTRY 1

See CHB880.

Course: SC60

Credit Points: 24 Contact Hours: 6 per week

■ CHB840 ELECTIVE STUDIES 2

Provides students with a further opportunity to undertake advanced studies on a topic of particular relevance to their research project; tailored to suit individual students but the topics studied would normally be in specific areas of physical chemistry, analytical chemistry, inorganic chemistry or organic chemistry but may be in a different area from that chosen in CHB740. A supervised reading program is involved and the unit may also include a formal lecture program. Relevant material from other accredited courses may be included as part or all of the requirement for this unit as directed by the Course Coordinator and Head of School.

Course: SC60

Credit Points: 6 Contact Hours: 2 per week

■ CHB880 ADVANCED TOPICS IN CHEMISTRY 2

A selection of advanced topics in the areas of physical, organic and inorganic chemistry. The topics offered reflect the expertise of the academic staff as well as the needs of the students. Both units are assessed at the end of the year.

Course: SC60

Credit Points: 24 Contact Hours: 6 per week

■ CHN701 TOPICS IN ADVANCED CHEMISTRY 1

A series of lectures and/or a reading program and/or selected laboratory exercises designed to provide the student with the appropriate theoretical and practical background, at an advanced level, necessary for the completion of a research program.

Course: SC80

Credit Points: 12

■ CHN704 RESEARCH TECHNIQUES

Development of theoretical and laboratory skills required to enable rapid progress with the research proposed for Stage 2 of the program.

Course: SC80

Credit Points: 44

■ CHN710 CHEMICAL INSTRUMENTATION

Chemical instrumentation and electronics required for advanced civil operation of scientific instrumentation.

Course: SC80

Credit Points: 12

■ CHN720 CHEMOMETRICS

The concepts of chemical data acquisition and interpretation; computational methods and existing software packages for statistical analysis in chemistry; statistical methods in quality and process control; sampling procedures; multivariate analysis and optimisation techniques.

Course: SC80

Credit Points: 12

■ CHN730 ADVANCED PHYSICAL METHODS IN CHEMISTRY

The theoretical and practical principles of selected physical methods in chemistry.

Course: SC80

Credit Points: 12

■ CHN740 LABORATORY TECHNIQUES FOR PREPARATIVE CHEMISTRY

The experimental techniques for the preparation and isolation of pure substances.

Course: SC80

Credit Points: 12

■ CHN801 TOPICS IN ADVANCED CHEMISTRY 2

See CHN701.

Course: SC80

Credit Points: 12

■ CHP120 BIOCHEMICAL ENGINEERING

The application of biological organisms, systems and processes to productive level activities; specific areas are in fermentation, bioprocessing and enzyme technology. Topics include: fermentation processes; microbial physiology and environmental factors in processing operations; fermentation kinetics and modelling; aeration and agitation; sterilisation; bio-reactors; and scale-up. Other topics are selected from animal cell culture, protein biotechnology, downstream processing and bio-process economics.

Courses: LS65, LS70, SC60, SC80

Credit Points: 12 Contact Hours: 5 per week

■ CHP220 PRINCIPLES OF BIOPROCESSING

The principles and practices necessary for the optimum and safe production of biological and biological chemicals (eg organic chemicals, pharmaceuticals, proteins, etc) derived from biological systems. An emphasis is placed on utilising recombinant organisms (microbial, plant, animal and insect cells). Such systems create special technical problems and challenges in bioprocessing and these are examined at the productive (fermentation and induction) and bioseparations levels in an integrated way. Where appropriate, such bioprocess analyses consider possible alternatives on a cost-effectiveness basis.

Course: LS70

Credit Points: 12 Contact Hours: 4 per week

■ CHP320 DOWNSTREAM PROCESSING

Introduction to the fundamental problems of separation operations important to the recovery of commercial products from biological processes. Topics include: cell recovery and disruption, membrane technology, chromatographic techniques, electro-chemical separation and new bio-separation techniques. Instruction includes case studies, and Aspen bio-process simulation.

Course: LS70

Credit Points: 12 Contact Hours: 5 per week

■ CHP420 BIOPROCESS ENGINEERING LABORATORY

This laboratory based unit provides instruction and training of bioprocess operations through experimental work linked to explanatory tutorials. Experiments focus on fermentation operations utilising microbial, plant, animal and insect cells (eg cell kinetics, product formation, mass transfer problems), applied enzymology, and bioseparations (cell disruption and separation, membrane and chromatographic techniques). In the case of recombinant organisms an integrated approach is taken for fermentation, protein induction, and bioseparation. There is the opportunity for either a small project or a process plant design.

Course: LS70

Credit Points: 12 Contact Hours: 4 per week

■ CHP691 ENVIRONMENTAL CHEMISTRY

The nature and composition of natural and polluted waters; metal ions, gases, redox equilibria complexation and microbial transformation of chemicals in water; water pollution and trace-level substances in water. Environmental chemistry of soils; acid-base equilibria and ion-exchange; chemicals in soil. The nature and composition of the atmosphere; chemical and photochemical reactions in the atmosphere; the oxides of carbon, sulphur.

Course: CE63, CE74

Prerequisites: Year 12 Chemistry – Sound Achievement or CHB001.

Credit Points: 8 **Contact Hours:** 5 per week

■ **CHP920 TECHNOLOGY ASSESSMENT & FORECASTING**

Technology assessment processes and strategies; comprising of: problem definition; technology analysis; societal, economic, and environmental description and impact analysis; legal and regulatory requirements and consequences and policy implications and analysis. Technological forecasting, substitution and change. This includes the use of quantitative planning models, optimisation techniques and simulation methods; scenario portrayal; case study analysis.

Course: IF64

Credit Points: 12 **Contact Hours:** 3 per week

■ **CHS200 CHEMISTRY**

Introduction to general and organic chemistry; atoms, molecules, ions; chemical bonding; chemical reactions and equations; solution chemistry; acids, bases and chemical equilibrium; gases; electrochemistry and nuclear chemistry; basic chemistry of organic compounds, aliphatic and aromatic.

Course: BN10

Credit Points: 6 **Contact Hours:** 3 per week

■ **CNB001 PROFESSIONAL PRACTICE 1A**

■ **CNB002 PROFESSIONAL PRACTICE 2A**

The wide range of experiences and responsibilities will provide for the student a greater understanding of the material they are exposed to in the course. It is not possible to detail for each semester the experience required due to the varied employment opportunities available to quantity surveyors in the professional offices and in the construction industry. Approved employment could be with a professional quantity surveying firm. Approved experience with other employers must be under the supervision of a qualified quantity surveyor. This could be with a building/civil engineering contractor, property developer, building or project management consultant, public authorities or major corporate bodies.

Course: CN43

Prerequisites: In final 3 part-time years

Credit Points: 9 **Contact Hours:** 3 per week

■ **CNB003 PROFESSIONAL PRACTICE 1A**

■ **CNB004 PROFESSIONAL PRACTICE 2A**

The wide range of experiences and responsibilities whilst in approved employment will provide for the student a greater understanding of the material they are exposed to in the course. It is not possible to detail for each semester the experience required due to the varied employment opportunities in the construction industry. Approved employment would be with a building/civil engineering contractor; property developer; building and project management consultant; contracting sub-contractor or supplier; building research; tertiary education; local, state and federal government control and supervisory positions; corporate bodies involved in property maintenance and management.

Course: CN41

Prerequisites: In final 3 part-time years

Credit Points: 9 **Contact Hours:** 3 per week

■ **CNB005 MEASUREMENT OF CONSTRUCTION 1**

Introduction to Quantity Surveying including the work of the Quantity Surveyor and his relationship with other members of the building industry. A study of mensuration and formulae involved in the calculation of length, area and volume. Detailed study and instruction in the

process and methods of taking off and billing of quantities in the trades roofer and roof plumber, plasterer, paviour, tiler and terrazzo worker, joiner, ironmonger, glazier and painter.

Courses: CN31, CN33

Prerequisites: CNB151, CNB154

Credit Points: 6 **Contact Hours:** 3 per week

■ **CNB006 MEASUREMENT OF CONSTRUCTION 2**

The process and methods of taking off and billing quantities in the trades excavator, concreter, bricklayer and blocklayer, and carpenter.

Courses: CN31, CN33

Credit Points: 6 **Contact Hours:** 3 per week

■ **CNB009 MEASUREMENT OF CONSTRUCTION 3**

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concreter, bricklayer and blocklayer, underpinning, pier and beam RC frame and suspended slabs.

Courses: CN31, CN33

Prerequisites: CNB006, CNB254

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB010 MEASUREMENT OF CONSTRUCTION 4**

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete.

Courses: CN31, CN33

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB013 BUILDING SERVICES 1 – HVAC**

Minimum standards of ventilation, centrifugal and axial flow fan applications; ductwork, accessories, layout, construction and installation; requirements for human comfort in air-conditioning; the ASHRAE Comfort Chart; refrigeration; air-conditioning systems, composition, cost, application, construction and installation; heating, fuel types, efficiency, capital and annual costs; effect of building ordinances.

Courses: CN31, CN33, PU42

Co-requisite: CNB253

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB014 BUILDING SERVICES 2 – ELECTRICAL**

Electricity supply and distribution; high and low tension supply; measuring current, cut-outs, intake and distribution; internal distribution; large supply installation, sub-station; fuse and switch gear; wiring systems and circuits; conduit and cables; joint boxes. Multi-box switching; heading circuits; earth connections, protection of conduit, conductor and accessories against mechanical damage, weather dampness, fire, electric shock; fibre optic cables in building supervisory systems; assessment of maximum demand and voltage drop; earth tests; tools and handling equipment, fastenings and supports; measurement, control and lighting equipment; accessibility and protection; domestic, industrial and commercial appliances; testing and fault locating.

Courses: CN31, CN33

Co-requisite: CNB254

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB021 PROFESSIONAL PRACTICE 1**

■ **CNB022 PROFESSIONAL PRACTICE 2**

■ **CNB023 PROFESSIONAL PRACTICE 3**

■ **CNB024 PROFESSIONAL PRACTICE 4**

The wide range of experiences and responsibilities whilst in approved employment will provide for the

student a greater understanding of the material they are exposed to in the course. It is not possible to detail for each semester the experience required due to the varied employment opportunities in the construction industry. Approved employment would be with a building/civil engineering contractor; property developer; building and project management consultant; contracting sub-contractor or supplier; building research; tertiary education; local, state and federal government control and supervisory positions; corporate bodies involved in property maintenance and management.

Course: CN41

Prerequisites: In final 3 part-time years

Credit Points: CNB021: 12; CNB022: 12; CNB023: 9; CNB024: 9

Contact Hours: 3 per week

■ CNB031 PROFESSIONAL PRACTICE 1

■ CNB032 PROFESSIONAL PRACTICE 2

■ CNB033 PROFESSIONAL PRACTICE 3

■ CNB034 PROFESSIONAL PRACTICE 4

The wide range of experiences and responsibilities will provide for the student a greater understanding of the material they are exposed to in the course. It is not possible to detail for each semester the experience required due to the varied employment opportunities available to quantity surveyors in the professional offices and in the construction industry. Approved employment could be with a professional quantity surveying firm. Approved experience with other employers must be under the supervision of a qualified quantity surveyor. This could be with a building/civil engineering contractor, property developer, building or project management consultant, public authorities or major corporate bodies.

Course: CN43

Prerequisites: In final 3 part-time years

Credit Points: CNB031: 12; CNB032: 12; CNB033: 9; CNB034: 9

Contact Hours: 3 per week

■ CNB103 MATERIAL SCIENCE 1

Properties, manufacture, use and analysis of timber, steel, concrete and clay products; investigation of their strength, density, hardness, porosity, plasticity, elasticity and deterioration; investigation and protection against corrosion and fire.

Courses: CN31, CN33

Co-requisite: CNB151

Credit Points: 4

Contact Hours: 2 per week

■ CNB104 MATERIAL SCIENCE 2

Physical and chemical properties of materials and their effect on construction and structural qualities; laboratory and field testing of bricks, mortar, brickwork, concrete, timber, steel; protection of material against corrosion and fire.

Courses: CN31, CN33

Prerequisite: CNB103

Co-requisite: CNB154

Credit Points: 4

Contact Hours: 2 per week

■ CNB111 CONSTRUCTION 1

Materials, methods and construction in single and two storey domestic structures with part of ground floor below ground level, site information and investigation, foundations including strip and beam footings and slab on ground, light timber framing code for walls, roofs and suspended floors taking into account the environmental, structural and aesthetic requirements. Accounting for costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements.

Courses: CN41, CN43

Co-requisites: CNB113, CNB115

Credit Points: 8

Contact Hours: 4 per week

■ CNB112 CONSTRUCTION 2

A continuation of Construction 1 covering masonry buildings including cavity brick, brick veneer, single skin masonry block construction, external cladding and internal linings, all types of roof covering including Super 6 C.F.C., concrete and clay tiles, corrugated and steel tray roof sheetings, slates and shingles, flashings, gutters and downpipes, function and construction of timber and metal windows, doors, stairs, fireplaces, light steel framed construction and pole houses, applied rendered finishes. Environmental science, comfort situations in varying climatic zones and their effect on building construction. Draughting typical details and working drawings.

Courses: CN41, CN43

Prerequisite: CNB111

Co-requisite: CNB114

Credit Points: 12

Contact Hours: 5 per week

■ CNB113 BUILDING TECHNOLOGY 1

A study of the structural materials used in construction - timber, stone, brickwork, concrete, steel and aluminium through an understanding of the basic properties of each. The bias is towards those characteristics which affect the user rather than to the needs of a designer. Particular emphasis is given to the problems which arise through the manufacturing, storage and installation processes. Significance of subject to needs of constructors; statics; bending theory for simple and continuous beams, approximate analysis methods; properties of sections; load transfer; design of simple timber and steel beams and columns for model projects; W33 framing for member sizing, tiedown and timber connection.

Courses: CN41, CN43

Co-requisite: CNB111

Credit Points: 8

Contact Hours: 4 per week

■ CNB114 BUILDING TECHNOLOGY 2

The materials covered in Building Technology 1 are investigated to greater depth through theoretical study and testing. Laboratory work is conducted during the latter part of the subject to reinforce the theoretical concepts and to demonstrate testing procedures. Concepts of masonry design; design theory for reinforced concrete; design of simple concrete footings, slabs on ground, beams, columns, suspended slabs; design of ground slab for Construction subject project; concept of psc design.

Courses: CN41, CN43

Prerequisite: CNB113

Co-requisite: CNB112

Credit Points: 8

Contact Hours: 4 per week

■ CNB115 GRAPHICS

Instruction in various types of drawings and mapping used in offices. Methods of setting out office drawings for sketch presentation, geometric, perspective and working drawings and details. Freehand drawing and sketching. Lettering, linework, material indication. Use of instruments, scales and drawing materials. Reproduction techniques. Introduction to CAD and information retrieval. Setting up drawings and details in line with progress in Construction 1.

Courses: CN41, CN43

Co-requisite: CNB111

Credit Points: 6

Contact Hours: 2 per week

■ CNB116 MEASUREMENT 1

Introduction to Quantity Surveying including the work of a Quantity Surveyor and his relationship with other members of the building industry. Introduction to the methodology of "taking off", investigating the various systems with particular emphasis on the one step method. A study of mensuration and formulae involved in the calculation of length and volume. Detailed study of "Introduction" to SMM and detailed

study and instructions in the process and methods of taking off and billing quantities in the trades finishes, roofing, doors, windows, hardware, glazing and painting.

Courses: CN41, CN43 **Prerequisite:** CNB111
Co-requisite: CNB112
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB117 PROFESSIONAL STUDIES A

An introduction to the theory and practice of management, laying a foundation on which to build managerial knowledge and techniques. Functions of management, planning, organising, motivating, leading and controlling, presented in the framework of a systems approach to decision making. The institution of the law: the Courts, Parliament and the Judiciary: the doctrines and methodology of the law including the doctrine of precedence, interpretation of statutes and regulations. The role of manufacturing in the Australian economy; modern concepts in manufacturing systems design; the interrelationship between design, materials selection, manufacturing technologies in relation to product quantity and quality.

Courses: CN41, CN43
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB118 BUILDING SERVICES 1

A study of macro services to the community including water supply, sewerage, power, gas, telephone and other public services. Requirements of headwork and reticulations. A study of sanitation, septic tanks, absorption and transpiration beds, stormwater and sewerage disposal and garbage and refuse disposal. Hydraulic engineering services associated with buildings. Water supply (including fire fighting and hot water), sewerage and sanitary plumbing with a study of relevant Acts and laws, including sizing and testing of main and gravity-fed services.

Courses: CN41, CN43 **Prerequisite:** CNB111
Co-requisite: CNB112
Credit Points: 6 **Contact Hours:** 2 per week

■ CNB124 PROFESSIONAL STUDIES 1

The syllabus is project based and student centred, with the student undertaking major pieces of work individually within a group. The student is encouraged to make use of all sources both within and outside the University and to communicate with the community, professionals, practitioners and government officials etc. The integrated study project work programme will provide a framework with a clear statement of aims and objectives for each part of the program. The projects suggested here for Professional Studies 1-3 relate to construction projects/processes whose emphases progress from Technology to Building Economics to Management experience/problems. The project in the first year will draw together mainly rudimentary technology subjects, centred around cottage construction. The project will indicate how related materials from the year's subjects will be developed by student groups and individuals.

Courses: CN41, CN43
Prerequisites: ITB270, CNB117, CNB111, CNB113, COB165
Co-requisites: CNB112, CNB114, CNB116, CNB118, PSB910
Credit Points: 8 **Contact Hours:** 3 per week

■ CNB131 MEASUREMENT OF CONSTRUCTION 1A

Subject description as for CNB005.
Courses: CN31, CN33 **Prerequisite:** CNB151
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB145 STRUCTURES 1

The needs of constructors; statics; bending theory for simple and continuous beams, approximate analysis methods; properties of sections; load transfer; design of simple timber and steel beams and columns for model projects; W33 framing manual for member sizing, tiedown and timber connection.

Courses: CN31, CN33
Co-requisite: CNB151
Credit Points: 4 **Contact Hours:** 2 per week

■ CNB146 STRUCTURES 2

Concepts of masonry design; design theory for reinforced concrete; design of simple concrete footings, slabs of ground, beams, columns, suspended slabs; design of slab for Construction 3 project; concept of PSC design; design of simple steel connections.

Courses: CN31, CN33 **Prerequisite:** CNB145
Co-requisite: CNB154
Credit Points: 4 **Contact Hours:** 2 per week

■ CNB151 CONSTRUCTION 1

Materials, methods and construction in single and two-storey domestic structures, site information and investigation, foundations, columns, upper floors, external and internal walls, finishes, etc. Environmental, structural and aesthetic requirements accounting for costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements; draughting typical details and working drawings; environmental science, comfort situations in varying climatic zones and their effects.

Courses: CN31, CN33
Co-requisites: CNB103, CNB145
Credit Points: 12 **Contact Hours:** 6 per week

■ CNB154 CONSTRUCTION 2

Continuation of CNB151; properties of materials, and behaviour in manufacturing and construction, effect on form and structure; workshop and studio working details of building components, coordination of building elements.

Courses: CN31, CN33 **Prerequisite:** CNB151
Co-requisites: CNB104, CNB146
Credit Points: 14 **Contact Hours:** 7 per week

■ CNB161 BUILDING STUDIES 1

The uses of materials and construction in single and two-storey domestic structures – site information, sub-structure, columns, upper floors, external and internal walls, finishes, etc. Environmental, structural, aesthetic, cost, statutory, dimensional, manufacturing and erection requirements. Factors in creating comfort situations in various climatic zones and their effect on building construction. Draughting: preparation of typical details and working drawings. Physical and chemical properties of materials such as timber, steel, concrete and clay products and how they affect their construction and structural qualities.

Course: CN32
Credit Points: 14 **Contact Hours:** 5.5 per week

■ CNB162 BUILDING STUDIES 2

The uses of materials and construction in single and two-storey domestic structures under the elements: staircase, roof, internal and external walls, windows, doors, finishes; fireplaces. Environmental, structural and aesthetic requirements, taking account of constraints such as costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements. Draughting: preparation of construction details and drawings.

Courses: CN31, CN32 **Prerequisite:** CNB161
Credit Points: 9 **Contact Hours:** 3.5 per week

■ CNB166 URBAN ECONOMICS

Economic processes and spatial context of the city; differentiation of competing land use; location decisions in the urban market; intra-urban location; market failures, externalities and government involvement; transport in the urban environment, urban management; urban issues. Economics of the Australian construction industry.

Course: CN32

Credit Points: 4

Contact Hours: 2 per week

■ CNB171 CONSTRUCTION 1

Materials, methods and construction in single and two-storey domestic structures, site information and investigation, foundations, columns, upper floors, external and internal walls, finishes, etc. Environmental structural and aesthetic requirements accounting for costs, dimensional requirements, statutory regulations, life and adaptability, manufacturing and erection requirements; draughting typical details and working drawings; environmental science, comfort situations in varying climatic zones and their effects.

Course: PU42

Credit Points: 12

Contact Hours: 6 per week

■ CNB172 CONSTRUCTION 2

Continuation of CNB171. The properties of materials and how they behave in the manufacturing and construction process and how these considerations relate to form and structure. It includes a studio and practical back-up to the lecture program. Students are required to prepare working details of building components, coordination of building elements for specific building use.

Course: PU42

Credit Points: 8

Prerequisite: CNB171

Contact Hours: 4 per week

■ CNB173 MATERIAL SCIENCE 1

Properties, manufacture, use and analysis of timber, steel, concrete and clay products including investigation into their strength, density, hardness, porosity, plasticity, elasticity and deterioration; investigation and protection of materials against corrosion and fire.

Course: PU42

Credit Points: 4

Co-requisite: CNB171

Contact Hours: 2 per week

■ CNB174 MATERIAL SCIENCE 2

The physical and chemical properties of materials and how they affect construction and structural qualities; laboratory and field testing of bricks, mortar, brickwork, concrete, timber and steel; investigation and protection of materials against corrosion and fire.

Course: PU42

Credit Points: 4

Prerequisite: CNB173

Contact Hours: 2 per week

■ CNB175 STRUCTURES 1

The needs of constructors; statics; bending theory for simple and continuous beams, approximate analysis methods; properties of sections; load transfer; design of simple timber and steel beams and columns for model projects; W33 framing manual for member sizing, tiedown and timber connection.

Course: PU42

Credit Points: 4

Contact Hours: 2 per week

■ CNB176 STRUCTURES 2

Concepts of masonry design; design theory for reinforced concrete; design of simple concrete footings, slabs of ground, beams, columns, suspended slabs; design of slab for Construction 3 project; concept of PSC design; design of simple steel connections.

Course: PU42

Credit Points: 4

Prerequisite: CNB175

Contact Hours: 2 per week

■ CNB211 CONSTRUCTION 3

Study of materials, methods and construction of low rise residential, commercial and industrial projects, including equipment handling and site management requirements. Such structures to be examined with regard to the environmental, structural and aesthetic requirements taking account of constraints such as costs, dimensional requirements, statutory regulations, life, adaptability, manufacturing and erection requirements. Low Rise Commercial: structural elements including foundations, retaining walls, load bearing masonry construction, reinforced concrete suspended slabs, and walls; structural steel roof trusses etc, parapet, balconies and balustrades. Sheet metal and built up roofing, rainwater goods. Fire and sound resistant materials, components and construction. Suspended, fire and spray finish ceiling. Fittings and built in furniture etc. Light Industrial: Raft, pier and pile foundations and earthworks, including equipment. Structural steel systems including portal frames, girder, trusses etc. Roof lights. Sheet external wall cladding. Industrial horizontal, vertical, sliding, folding and roller shutter doors. Special floor finishes. Handling equipment. Formwork Design: Objectives in building formwork, understanding quality, safety and control. Formwork planning, re-use, erecting and stripping schedules. Types of facing material, hardware and fasteners. Loads and pressures on forms and use of design tables. Formwork drawing, detailing, building and erecting. Special techniques and prestressing/post tensioning. Proprietary formwork and falsework.

Courses: CN41, CN43

Prerequisites: CNB113, CNB111, CNB112, CNB114

Co-requisite: CNB213

Credit Points: 12

Contact Hours: 4 per week

■ CNB212 CONSTRUCTION 4

Building Construction: A study of the construction techniques peculiar to multi-storeyed buildings and the implications of working on a major city site. The scope covers site investigation, deep basement excavation, dewatering and construction, structural frame construction, cladding, outfitting and finishes and the significance of services on the construction process. Evolution of Building: A study of civilisations from prehistoric to modern times examining systems of construction and their relationship to building techniques and economic value.

Courses: CN41, CN43

Prerequisites: CNB211, CNB213, CNB221

Credit Points: 9

Contact Hours: 5 per week

■ CNB213 BUILDING TECHNOLOGY 3

A study of the non-structural materials used to enclose and decorate buildings, building boards, plaster, glass, asphalt, plastics, non-ferrous metals, concrete products and paint. The behaviour of materials in service will be examined which includes the effect of ageing, incompatibility, repair and cleaning techniques, and the effects of fire on structural materials. Implications of maintenance and quality inspection. Portal behaviour; design of simple steel connections, plastic versus elastic design; structural bracing; truss analysis; stability of structures during construction; stability of cranes, loads in lifting systems; unbalanced loads during construction; stability of multi-storeyed buildings; loading and design of simple retaining structures. Concrete practice wind load conditions on high rise structures. Multi-rise framed structures.

Courses: CN41, CN43

Prerequisites: CNB113, CNB114

Co-requisite: CNB211

Credit Points: 6

Contact Hours: 4 per week

■ CNB214 BUILDING CONTRACTS/ ARBITRATION LAW

Basic principles, elements, formation and discharge of a contract. Elements of Contract, offer, acceptance, certainty and consideration. Content of a valid contract, misrepresentation, collateral contract, implied terms. Formal requirements and part performance. Contract documents and their interpretations. Remedies for breach of contract. Recovery of payment of work done, concept of entire contract, substantial performance and Quantum Meruit. With particular reference and consideration of the major provisions in Standard Forms of Building Contract. Aspects covered include, tenders, subcontractors, role of the Architect, variations, time for completion and extension of time, claims and payments, determination & Arbitration. Arbitration - the agreement, comparison with actions at law, reference by consent, appointment of an arbitrator, Conduct of an arbitration, powers and duties, rules of evidence, enforcement of an award, costs.

Courses: CN41, CN43 **Co-requisite:** CNB220
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB215 MEASUREMENT 2

Detailed study and instruction in the process and methods of taking off and billing quantities in the SMM trades, groundworks 4.1 to 4.3, concrete 6.1 to 6.4, masonry, woodwork, partitions for simple buildings having a single storey having both suspended and slab on ground construction.

Courses: CN41, CN43
Prerequisites: CNB116, CNB111, CNB112
Co-requisite: CNB211
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB216 MEASUREMENT 3

Detailed study and instruction in the process and methods of taking off and billing quantities in the SMM trades, groundworks 4.4, piling 5.2.2., concrete 6.1 to 6.8, structural steel, suspended ceilings, membrane and asphalt roofing, demolition, stonework in multi storey buildings having minor basements, underpinning and reinforced concrete and steel frame with built up roofing systems.

Courses: CN41, CN43 **Prerequisite:** CNB215
Co-requisite: CNB212
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB217 BUILDING SERVICES 2

Minimum standards of ventilation, centrifugal and axial flow fan applications; ductwork-accessories, layout, construction and installation; requirements for human comfort in air conditioning; the ASHRAE Comfort Chart; principles of refrigeration; air-conditioning systems, composition, cost, application, construction and installation; heating, fuel types, efficiency, capital and annual costs; effect of building ordinances. Mechanical estimating: types, tenders, preliminaries, trade awards and wage rates. Take off procedure, costing and estimating make-up calculations. System costs in relation to building floor area, operating and maintenance costs, builder's allowance for each system.

Courses: CN41, CN43 **Co-requisite:** CNB211
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB 218 BUILDING SERVICES 3

Electrical terminology and formula, three phase concept. Supply Authority Distribution System, line diagrams, high voltage transfer, transformers, load profile, Authority Requirement, Light and Power Acts. Tariffs and metering, energy management, electrical safety. SAA Wiring Rules, maximum demand, diversity, tables, cable sizing and voltage drop, points per circuit, fault levels, fuses, breakers and switchboards.

Wiring types, busbars, wiring systems, space required, computer and data systems, fibre optics, accessories. Security, computer power supplies. Lighting, types, design methods, emergency and evacuation systems. Building Supervisory System, justification, hardware, software. Electrical plans, specifications, symbols, CAD. Lightning Protection System. Contractor Licensing, testing, tools and appliances. Energy management, solar energy, ice storage, control systems and energy audits. Electrical estimating: types, tenders, preliminaries, trade award and wage rates. Take off procedure, costing and estimating make-up calculations. System costs in relation to building floor area, operating and maintenance cost, builder's allowance for each system.

Courses: CN41, CN43

Prerequisites: CNB118, CNB211

Co-requisite: CNB212

Credit Points: 6 **Contact Hours:** 3 per week

■ CNB219 ECONOMICS OF THE CONSTRUCTION INDUSTRY

The economic problem, wants, resources, scarcity, choice; economic systems, features of the macro economy; supply and demand characteristics; goods market, factor markets, competitive market structures, business concentration; operations of the Construction Industry, nature of output; nature of firms, revenue analysis via pricing mechanisms, sales forecasting; production function; break even analysis; business cycle and fluctuations in the Construction Industry, failure of construction firms; government stabilisation policies and effect on the construction industry; structure change in the Australian and world economies.

Courses: CN41, CN43

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB220 CONSTRUCTION MANAGEMENT 1

Industry participants and their roles. Basic management principles - planning, leading, organising and controlling. Forms of project delivery, reviewing contract documentation. Site management skills including site organisational structure, site controls, site communications, reporting, project engineering and negotiation skills as applied to subcontractors and suppliers, commissioning and handing over the site. Company marketing and negotiating skills. An analysis of project design and construction technique on project buildability and their effect on site management and organisation. Stress management techniques.

Courses: CN41, CN43

Prerequisites: CNB117, CNB219

Co-requisite: CNB212

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB221 BUILDING LEGISLATION

Passing and resolving Acts, Regulations and By-laws; knowledgeable site representatives; study of Building Code of Australia, Queensland Home Building Code and Standard Building By-Laws which control the design, construction of building works in Queensland; emphasis on Building Codes in the By Laws; a study of the Acts Interpretation Act, and Town Planning Acts. The study of the Workplace Health and Safety Act 1989/90, the regulations that apply and Codes of practice. The application of the requirements of this legislation to the production of a Site Safety Management Plan incorporating a "systems" approach in minimising exposure of the individual or Company to prosecution. Practical demonstrations in good scaffolding practice. Case Studies in addressing safety on building sites.

Courses: CN41, CN43

Credit Points: 6 **Contact Hours:** 4 per week

■ CNB222 ESTIMATING 1

A study of the techniques used in the preparation of detailed estimates of cost for simple structures covering the trades of concreter, carpenter, joiner, bricklayer, plumber, drainer, tiler, plasterer and painter. The industrial overheads applicable to labour are discussed and labour costs are calculated from current awards. The subject draws heavily on the student's knowledge of construction and on the sequencing of tasks.

Courses: CN41, CN43 **Prerequisite:** CNB215
Co-requisites: CNB212, CNB216
Credit Points: 6 **Contact Hours:** 2 per week

■ CNB223 APPLIED COMPUTING 1

A further study of the computer software programs which can be used in the construction and property development processes. Designed to co-ordinate the practical aspects of the lecture material presented each semester so that students both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The programs used include spreadsheet and data base software packages. Applied material is drawn from statistics, quantitative operation research methods, and other current subject matter in years 1 & 2 of the course.

Courses: CN41, CN43 **Prerequisite:** ITB270
Credit Points: 6 **Contact Hours:** 2 per week

■ CNB224 PROFESSIONAL STUDIES 2

The project in the second year will draw together more advanced but mainly Technology type subjects but added breadth is provided with Measurement, Estimating, Building Law and Management subjects. The project will be a medium high rise residential or commercial project (10 storey) situated in a commercial zone close to the inner city.

Courses: CN41, CN43
Prerequisites: CNB124, CNB211, CNB213, CNB221, CNB215, CNB217, CNB219, CNB223
Co-requisites: CNB212, CNB216, CNB218, CNB220, CNB222, CNB214
Credit Points: 9 **Contact Hours:** 3 per week

■ CNB243 LAW 1 – BUILDING ACTS & REGULATIONS

Passing and resolving Acts, regulations and by-laws; knowledgeable site representatives; study of building code of Australia, Queensland Home Building Code and Standard Building by-laws which control the design, construction and building works in Queensland; emphasis on building codes in the by-laws; a study of the Health Act, Factories and Shops Act, Liquor Act, Acts Interpretation Act, Fire Safety Act and Town Planning acts.

Courses: CN31, CN33, PU42
Co-requisite: CNB254
Credit Points: 5 **Contact Hours:** 2 per week

■ CNB245 MEASUREMENT OF CONSTRUCTION 1B

Methods of taking off and billing quantities in the trades of excavator, concreter, bricklayer, blocklayer and carpenter for simple building.

Courses: CN31, CN33
Prerequisites: CNB131, CNB151, CNB154
Co-requisite: CNB253
Credit Points: 6 **Contact Hours:** 3 per week

■ CNB246 MEASUREMENT OF CONSTRUCTION 2B

Methods of taking off and billing quantities in more complex building in the trades excavator, concreter, bricklayer, blocklayer in simple basement, underpinning, pier and beam, RC frame and suspended slab;

taking off and billing in the trades asphalt, built-up roofing, demolisher, mason, structural steel and precast concrete.

Courses: CN31, CN33
Prerequisites: CNB146, CNB245, CNB253
Co-requisite: CNB254
Credit Points: 8 **Contact Hours:** 4 per week

■ CNB247 MATERIAL SCIENCE 3

Atomic structure and bonding and its effects on a material's engineering property; elementary metallurgy of iron and steel; non-ferrous metals and alloys; joining of metals, fatigue, creep, brittle and ductile fracture, corrosion and protection; properties, manufacture, use and analysis of fibrous cement, wood products, ceramics, polymers, paints, sealants and mastic products; investigation into the material's strength, density, hardness, porosity, plasticity, elasticity, deterioration, optical, electrical, thermal and acoustic properties.

Courses: CN31, CN33
Prerequisites: CNB103, CNB104
Co-requisite: CNB253
Credit Points: 4 **Contact Hours:** 2 per week

■ CNB253 CONSTRUCTION 3

Study of industrial and multi-storey residential buildings; management, planning, and coordination of construction, site layout, site establishment and material handling processes; draughting and detailed drawings, site visits and/or workshop.

Courses: CN31, CN33
Prerequisites: CNB103, CNB104, CNB154
Co-requisites: CNB247, CNB259
Credit Points: 10 **Contact Hours:** 5 per week

■ CNB254 CONSTRUCTION 4

An extension of CNB253, dealing with multi-storey commercial buildings.

Courses: CN31, CN33 **Prerequisite:** CNB253
Credit Points: 12 **Contact Hours:** 6 per week

■ CNB259 STRUCTURES 3

Portal behaviour; plastic versus elastic design; structural bracing; truss analysis; stability of structures during construction; stability of cranes, loads in lifting systems; unbalanced loads during construction; stability of marine equipment; stability of multi-storeyed buildings; loading and design of simple retaining structures.

Courses: CN31, CN33
Prerequisites: CNB103, CNB104, CNB145, CNB146
Co-requisite: CNB253
Credit Points: 4 **Contact Hours:** 2 per week

■ CNB261 BUILDING STUDIES 3

The materials and construction of a range of structures from industrial single to multi-storey residential buildings: substructure, columns and upper floors, staircases, roof, external and internal walls, windows and doors, finishes, fire protection and fittings. Environmental, structural, aesthetic, cost, statutory, dimensional, manufacturing and erection requirements. Draughting: preparation of typical details and working drawings. Material science: a study of the non-structure materials such as building boards, ceramics, glass, plastics, paint from the manufacturing process through to the effects of ageing and problems of cleaning, repair and maintenance.

Course: CN32 **Prerequisite:** CNB162
Credit Points: 9 **Contact Hours:** 3 per week

■ CNB262 BUILDING STUDIES 4

An extension of CNB261, dealing with multi-storey commercial buildings. It also looks at design appraisal: effect of design on user comfort, safety, energy usage,

orientation, materials, layout, services, ageing and aesthetic composition.

Course: CN32

Credit Points: 8

Prerequisite: CNB261

Contact Hours: 3 per week

■ CNB263 VALUATION 1

Basic concepts and principles of real property value. Definitions of value. Process and methods used in property valuation. Ethics Factors influencing accuracy of valuations. The comparative approach. Valuations of vacant land and residential property. Valuation inspection and reports. Practical valuation assignments. Summation. Investment valuation; rental value, outgoings.

Course: CN32

Credit Points: 7

Contact Hours: 3 per week

■ CNB268 VALUATION 2

See CNB263.

Course: CN32

Credit Points: 8

Prerequisite: CNB263

Contact Hours: 3 per week

■ CNB301 PM1 – ADVANCED CONSTRUCTION METHODS

Construction and site management problems encountered by a project manager; case studies having unusual construction problems or techniques; site planning and organisation of projects; material handling and site equipment selection.

Courses: CN31, CN33

Prerequisites: CNB341, CNB254

Co-requisite: CNB440

Credit Points: 4

Contact Hours: 2 per week

■ CNB311 CONSTRUCTION 5

Civil Engineering Construction (Building): A study of those aspects of civil engineering construction which impinge on building and land development. The emphasis is placed on an understanding of the efficacy of competing methods including plant selection rather than on a quantified solution. The areas covered are bulk excavation, detailed excavation, dewatering, foundations, pipelines, tunnels, roadworks, bridges and marine structures. Basic weather prediction and the organisation of work in remote locations. Building Services - Lifts, Acoustics etc.: Transportation of people and goods, passenger, goods and service lifts, planning disposition, control systems and construction; regulatory requirements, approximate traffic calculations; escalators and moving walks, use, widths and ratings, regulatory requirements and construction; planning of lift contracts and sprinklers, detectors, alarms, extinguishers; communication systems; intrusion alarm systems. Building acoustics: external noise propagation, calculations and control for complex source/environment integration. External noise control by insertion, absorption and transmission loss. The management of noise in the built environment.

Courses: CN41, CN43

Credit Points: 9

Prerequisite: CNB212

Contact Hours: 5 per week

■ CNB312 MEASUREMENT 4

Detailed study and instruction in the process and methods of taking off and billing quantities in: The SMM trade groundworks 4.4 and 4.5, piling, concrete 6.5 and 6.7 for the more complex basements and foundation stabilisation systems as encountered in inner city projects and innovative structural systems for columns, floors and walls. Hydraulics and drainage, electrical and mechanical installations, external elements.

Course: CN43

Prerequisites: CNB212, CNB311, CNB118, CNB216, CNB217, CNB218

Credit Points: 9

Contact Hours: 4 per week

■ CNB313 TIME MANAGEMENT 1

The subject is designed to develop skills in construction planning and control techniques. The planning techniques studied include bar charts, critical path networks, (arrow, precedence and time scale formats). Updating; control and reporting techniques. Line of Balance planning method.

Courses: CN41, CN43

Prerequisites: CNB212, CNB216, CNB214, CNB220

Co-requisite: CNB323

Credit Points: 9

Contact Hours: 4 per week

■ CNB314 CONTRACT ADMINISTRATION 1

Contractual arrangements and delivery systems. Contract planning and control. Reporting and control systems, contract documentation. Risk allocation and planning to avoid disputes. End cost budgeting, forecasting and control techniques.

Course: CN43

Prerequisites: CNB323, CNB319, CNB327, CNB313,

CNB214, CNB315, CNB321

Credit Points: 6

Contact Hours: 3 per week

■ CNB315 CONSTRUCTION BUSINESS MANAGEMENT

Accounting process to trial balance, preparation of end of period reports, accounting systems and data collection, accounting for cash, credit, fixed assets and payroll, final company accounts. Management versus financial, cash versus accruals accounting, profit versus taxable income. Factors impacting on profit and intangible assets, concepts of capitalised expenditure. Building plant depreciation. Cost coding and cash flow. Cost analysis and control, salary allocation and overheads. Accounting period ratios, balance sheet, impact on turnover. Statements of sources and application of funds, accounting report and sources of business funding.

Courses: CN41, CN43

Prerequisite: CNB220

Credit Points: 6

Contact Hours: 3 per week

■ CNB316 VALUATIONS & INVESTMENT THEORY

Nature of value; effect of supply and demand of land and buildings; investment value and occupational value; types of landed property, incidents of their tenure, outgoings and comparison with other forms of investment; rates of interest required from different types of property; calculating rental value and net income and capitalisation of net income; use of valuation tables; capital investment theory of NPV and IRR choice of discount rates, uncertainty and decision theory and financial cashflows.

Courses: CN41, CN43

Prerequisites: 2nd half of course

Credit Points: 6

Contact Hours: 3 per week

■ CNB317 CONSTRUCTION MANAGEMENT 2

Control and control systems, cost planning, cost reporting and forecasting, administration of the financial requirements of the Head Contract, preparation of cash flows. Purchasing (including tender preparation and the letting of subcontracts, placing of orders and subsequent administration of both). Project liquidity, working capital and turnover and general site administration. Insurances. Finalising subcontracts, archiving and final accounts. Overview of standard contracts and administration of variations, delays, time extensions and prolongation costs, progress claims etc. Contract drafting for sub and main contracts including contract specification. Principles and application of Rise and Fall.

Courses: CN41, CN43

Prerequisites: CNB220, CNB214

Co-requisites: CNB313, CNB315, CNB323, CNB321

Credit Points: 6

Contact Hours: 3 per week

■ CNB318 COMMERCIAL LAW

Sale of goods. Hire Purchase. Negotiable Instruments. Insurance law. Partnership Law, General principles of Company Law. Bankruptcy and Liquidation.

Courses: CN41, CN43

Prerequisites: CNB321, CNB214, CNB315

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB319 PROFESSIONAL MANAGEMENT

The concepts of specifications complementing architectural documents; definitions, objectives of a specification; specification as a contract and working document; reference material and specification writing; use of Master specifications; outright and performance specification writing; and preparation of specified bills of quantities. Introduction to computer specification software. Scale of fees and professional charges; code of ethics; letters of engagement; law involving the quantity surveyor and the client; professional indemnity; professional image and status; office management and procedures.

Course: CN43

Prerequisites: CNB212, CNB213, CNB223, CNB214

Co-requisite: CNB321

Credit Points: 6 **Contact Hours:** 3 per week

■ CNB320 BUILDING ECONOMICS 2

Case studies covering the following fully worked examples: Tax depreciation schedule on an office and a hotel; Value management study of an office development; Replacement insurance valuation both on office and retail development; Elemental analysis of a number of commercial developments. Hands on experience, by students to use related computer software to calculate the above studies and analyses.

Course: CN43

Prerequisite: CNB327

Co-requisite: CNB314

Credit Points: 6 **Contact Hours:** 3 per week

■ CNB321 TORTS & PROPERTY LAW

Law of Tort - negligence, professional negligence, duty of care, liability, occupier liabilities, nuisance, fraud and conversion. Law of property - ownership and possession, estates and interests in land, easements, rights and restrictive covenants. Party walls, boundary walls, fences and encroachments.

Courses: CN41, CN43

Prerequisites: 2nd half of course

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB322 CONSTRUCTION MANAGEMENT CASE STUDY

The students undertake client negotiations, sub-contractor negotiations, technical decisions, administration of contracts, report writing and the resolution of disputes.

Course: CN41

Prerequisite: CNB311

Co-requisites: CNB200, CNB214

Credit Points: 6 **Contact Hours:** 3 per week

■ CNB323 ESTIMATING 2

The subject builds on the procedures covered in Estimating 1 to assess the cost of more complex work and to introduce more advanced methods of pricing. The work includes deep basement excavation, foundations, concrete framing, suspended floors, steel erection, precast and prestressed concrete erection. Later lectures cover the preliminary items and the development of a tender submission from the base estimate. The problems of obtaining and assessing sub contract prices and the evaluation of variations are discussed, together with the consequences of unbalanced rates. The subject concludes with an introduction to the methods used to produce preliminary estimates from concepts and early designs.

Demonstration of computer estimating software.

Courses: CN41, CN43

Prerequisites: CNB216, CNB212, CNB222

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB324 PROFESSIONAL STUDIES 3A

The third year project will deal mainly with Building Economics subjects. The project will be a low rise commercial building in the inner city area. The students will be provided with preliminary and working drawings and specification.

Course: CN43

Prerequisites: CNB224, CNB311, CNB313, CNB315, CNB319, CNB323, CNB327, CNB321

Co-requisites: CNB312, CNB320, CNB314, CNB332, CNB316, CNB318

Credit Points: 9 **Contact Hours:** 3 per week

■ CNB325 BUILDING ECONOMICS

History and need for cost control, comparisons between cost planning and approximate estimating. NPWC cost control system. Effects of height, shape and building efficiency upon cost and value. Functional requirements and cost implication of construction methods. Influence of site and market conditions and economics of prefabrication and industrialisation. Building cost data bases and indices, cost checking and analysis. Value management and life cycle costing. Introduction to tax depreciation and tax effective design.

Course: CN41

Prerequisites: CNB216, CNB118, CNB217, CNB218, CNB220

Co-requisites: CNB323, CNB311

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB326 TIME MANAGEMENT 2

Understanding of resources and their importance in the planning process. High rise repetitive, production planning and the importance of material and resource handling in this process. Legal problems associated with CPM. Planning and control of various types of projects.

Course: CN41

Prerequisites: CNB313, CNB118, CNB217, CNB218, CNB317, CNB323

Credit Points: 8 **Contact Hours:** 4 per week

■ CNB327 BUILDING ECONOMICS 1

History and need for cost control, comparisons between cost planning and approximate estimating. NPWC cost control system. Effects of height, shape and building efficiency upon cost and value. Functional requirements and cost implication of construction methods. Influence of site and market conditions and economics of prefabrication and industrialisation. Building cost data bases and indices, cost checking and analysis. Value management and life cycle costing. Introduction to tax depreciation and tax effective design.

Course: CN43

Prerequisites: CNB216, CNB118, CNB217, CNB218, CNB311, CNB220

Co-requisites: CNB323, CNB313

Credit Points: 6 **Contact Hours:** 2 per week

■ CNB328 CONSTRUCTION MANAGEMENT 3

Management principles - planning, goal setting, strategic, operational and tactical planning. Controlling-process, budgets, audits. Organising-organisational structures, job design, specialisation, departmentalisation. Developing company business plans, safety management plans and quality management plans with emphasis on the application of these planning techniques to the construction industry. Decision making and problem solving. Code of ethics, professional image, status and indemnity.

Course: CN41 **Prerequisites:** CNB317, CNB221
Co-requisites: CNB326, CNB318, CNB322
Credit Points: 8 **Contact Hours:** 3 per week

■ **CNB330 APPLIED COMPUTING 2**

Computer software programs which can be used in the construction and property development processes. The unit is designed to co-ordinate the practical aspects of the lecture material presented each semester so that students both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The programs reinforce the applied subjects which are taken in the course and may include software packages covering: construction business management; construction administration and cost control; estimating, cost planning and billing etc;

Course: CN41

Prerequisites: CNB315, CNB317, CNB323, CNB325
Co-requisites: CNB328, CNB316
Credit Points: 6 **Contact Hours:** 3 per week

■ **CNB332 APPLIED COMPUTING 2A**

Computer applications for the preparation of bills of quantities using software packages; hands-on experience in setting up of base accounts, trades, headings; measurement input; editing, correction and data manipulation; report generation in various bill of quantities formats; pricing using estimated and/or tendered rates; elemental analyses; use of computer in measurement of non-traditional contractual systems; specification and preamble development.

Course: CN43

Prerequisites: CNB327, CNB319, CNB323, CNB216
Co-requisites: CNB312, CNB316
Credit Points: 6 **Contact Hours:** 3 per week

■ **CNB334 PROFESSIONAL STUDIES 3**

The third year project will deal mainly with Building Economics and Management subjects. The project will be a high rise building in the inner city area. The students will be provided with Working Drawings, Specification, Bills of Quantities and Contract Conditions. Estimating and Building Economics: Prepare an estimate to erect the building. Carry out a bulk check and prepare a preliminary network to determine time related overheads and completion date for the tender. Submit tender. Prepare Basic Critical Path Network etc & prepare cost plan for project.

Course: CN41

Prerequisites: CNB224, CNB311, CNB313, CNB315, CNB317, CNB321, CNB323, CNB325
Co-requisites: CNB326, CNB322, CNB328, CNB330, CNB316, CNB318
Credit Points: 8 **Contact Hours:** 3 per week

■ **CNB341 BUILDING & CIVIL ENGINEERING CONSTRUCTION**

Large project bulk excavation, earth and rock retaining systems, rock excavation and explosive handling; dewatering, pile driving, bored pier and special foundation construction; demolition of structures; roadworks, techniques, stabilised construction, surface sealing and associated bridge construction; falsework and temporary works.

Courses: CN31, CN33

Prerequisite: CNB254

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB342 LAW 2 – PRINCIPLES & PROPERTY**

Legal principles and process, the legal system and process; sources and divisions of the law; rules of precedence; interpretation of statutes and regulations; legal practice and procedure; law of property, ownership and possession, estates and interests in land; easements,

rights and restrictive covenants; party walls, boundary walls, fences and encroachments.

Courses: CN31, CN32, CN33

Credit Points: 3 **Contact Hours:** 1.5 per week

■ **CNB343 ECONOMICS OF THE CONSTRUCTION INDUSTRY**

Economics and applied economics; features of the macroeconomy; demand, supply, prices and stocks; market structures, competition, collusion, integration and concentration; real property markets, tenure, markets and sub markets; construction and housing industries composition and characteristics; demand for dwellings, the deposit gap, public housing, rental markets; pricing mechanism, application to land, contract and speculative projects, etc.; cost analysis, cost components in housing, problems of rising costs and time delays; finance industries, types and use of finance, use of gearing, risk considerations, cash flow; failure of developer and builder firms.

Courses: CN31, CN33

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB347 HYGIENE & SANITATION**

A study of macro services to the community including water supply, sewerage, power, gas, telephone and other public services. Requirements of headworks and reticulations. A study of sanitation, septic tanks, absorption and transpiration beds, stormwater and sewerage disposal and garbage and refuse disposal. Hydraulic engineering services associated with buildings. Water supply (including fire fighting and hot water), sewerage and sanitary plumbing with a study of relevant Acts and laws, including sizing and testing of main and gravity-fed services.

Courses: CN31, CN33, PU42

Credit Points: 4 **Contact Hours:** 2 per week

■ **CNB362 PROPERTY AGENCY**

Characteristics of the Australian property market, the nature of the marketing problems. The marketing plan: the mix, implementation of plan and sales forecast; pricing decisions, approach to selling; consideration of sales particulars and auction catalogues. Promotional decisions: determination of budget size; media decision and sales promotion; technological advances and market changes. Real estate brokerage and the application of marketing principles to residential, commercial, industrial, special and overseas properties. Negotiation skills development.

Courses: CN32, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ **CNB363 VALUATION 3**

Valuation formula; time value concepts; investment approach, basic capitalisation and cash flow techniques. Assumptions. Practical applications of investment approach to suburban and CBD properties.

Course: CN32

Prerequisite: CNB268

Credit Points: 9 **Contact Hours:** 3 per week

■ **CNB364 VALUATION 4**

See CNB363.

Course: CN32

Prerequisite: CNB363

Credit Points: 8 **Contact Hours:** 3 per week

■ **CNB367 REAL ESTATE ACCOUNTING 1**

Financial accounting: period versus project income determination, inventory valuation and costs of goods sold, introduction of asset valuation theories, depreciation, intangible asset determination, effects of taxation. Analysis and interpretation of financial statements: multiple factors in interpretation, analysis principles for business brokerage. Asset valuation: conventional bases for valuation, current cost, replacement cost general price level

changes, effects in depreciation and taxation. Business structures: sole trader, partnerships, companies and appropriate accounting procedures. Business analysis and assessment of value for business brokerage. Project accounting, contracts, part-payments, interim project determination, development costs.

Courses: CN32, PS47

Credit Points: 9

Contact Hours: 3 per week

■ CNB368 REAL ESTATE ACCOUNTING 2

Budgeting and cost accounting, the production function, decision and control aspects of production, cost accounting, cost flows, cost types, cost classification, costing systems, standard costing and variance analysis, flexible budgets and budgetary control, performance and evaluation. Company finance: objectives of the finance function, use of financial indicators, debt equity sources of funds, financial versus capital structure, financial risk and gearing, cost of capital. Cash flow management: decision making using cash flow management techniques viz purchase versus lease, etc. Working capital management and short-term investment criteria. Capital budgeting for an ongoing business. Project sorting and budgeting.

Courses: CN32, PS47

Prerequisite: CNB367

Credit Points: 8

Contact Hours: 3 per week

■ CNB401 BUILDING ECONOMICS & COST PLANNING

Cost control building outputs and costs; comparison of cost planning and approximate estimating; cost implications of design variables, perimeter/floor area ratio, size of building, circulation space, storey height; cost, effects of site conditions, prefabrication and standardisation; approximate estimating, types and uses; measurement of variations, adjustment of prime costs and provisional sums; cost analyses, indices and data; applications and use of cost analyses; progress payments and final accounts.

Course: CN31

Prerequisites: CNB010, CNB013, CNB014, CNB254, CNB443, CNB444, CNB446, CNB540

Credit Points: 4

Contact Hours: 2 per week

■ CNB403 BUILDING MANAGEMENT 1

Management in principle, planning, leading, organising, controlling and applied communication; fundamentals of management; roles of policy maker and executive; accountability; problem solving; organisation structures and relationships, formal and informal structures; management in practice, building industry participants, client to builder; systems in the building industry; contract, and head office management of small and large contracts; management, job description, contracts, plant, estimating, purchasing, planning and accounting section; tenders and contracts; controlling incoming work, securing contracts.

Courses: CN31, CN33

Co-requisite: CNB253

Credit Points: 4

Contact Hours: 2 per week

■ CNB404 BUILDING MANAGEMENT 2

More advanced management principles and their application to site administration and management.

Courses: CN31, CN33

Prerequisite: CNB403

Credit Points: 4

Contact Hours: 2 per week

■ CNB405 PROJECT EQUIPMENT & SAFETY

Construction Safety Act 1971-73 and regulations; fixed, mobile and portable equipment, hoarding, gantries, scaffolding; crane, hoist and other relevant code; responsibilities and certification of site operatives; safety problems in erection, demolition and excavation work; accident investigation, analysis and preventive techniques; frequency and severity rates and training, man-

agement responsibilities.

Course: CN31

Credit Points: 4

Co-requisite: CNB254

Contact Hours: 2 per week

■ CNB411 DEVELOPMENT PROCESS 1

Development sectors covering commercial offices (high and low rise, CBD and suburban), retail (CBD, secondary, regional, strip and festival), industrial, infrastructure, short term accommodation and leisure (3-5 star hotels, integrated resorts, motels, golf courses and marinas). Residential land subdivisions both small (under 20 Ha) and large, medium and high density housing including a systematic critique of AMCORD (Australian Model Code of Residential Development) and its effects on lot yields and service efficiencies. Development of building approval process, rezoning, political influences in the development process, changing social needs and the effects on development, feasibility studies, development budget control, taxation, development financing and the development process, legal development structures, marketing and selling, commissioning leading development teams, planning for client satisfaction and development sensitivities.

Courses: CN41, CN43

Prerequisites: CNB313, CNB316, CNB318, CNB315, CNB325, CNB311, CNB327, CNB321

Credit Points: 9

Contact Hours: 3 per week

■ CNB412 DEVELOPMENT PROCESS 2

Case Studies on the following type of developments: CBD office, suburban office, hotels, integrated resorts, motels, golf courses, marinas, retail centres (CBD, regional, secondary, strip and festival), medium and high density housing, infrastructure and industrial, small and large residential sub-divisions, retail and retirement villages.

Courses: CN41, CN43

Prerequisite: CNB411

Credit Points: 6

Contact Hours: 2 per week

■ CNB414 CIVIL ENGINEERING QUANTITIES

Introduction to the measurement of civil engineering works based on the study of the SMM of Civil Engineering Quantities. Detailed study of methods, plant, specification and measurement of: earthworks, (clearing, compaction and dredging); roadworks, (survey, bulk excavation and filling, pavement construction, kerbing, culverts); and bridges, (foundations, abutments, superstructure, approach embankments, safety structures); Study of dam construction (earthworks storage volumes etc). A brief introduction to computer applications such as earthwork calculations, etc. An investigation into the method of measuring the quantity of materials involved in major industrial complexes such as: Refinery and processing plant, including pipework, vessels, tanks, instrumentation, electrical, commissioning, scaffold, shut down maintenance; pipelines, etc.; Mining, plant and equipment, conveyors, processing plant etc; Oil and Gas, offshore platforms, fabrications etc. Introduction to cost engineering and cost control on major engineering projects. Estimating procedures used for this type of construction.

Course: CN43

Prerequisite: CNB311

Credit Points: 12

Contact Hours: 4 per week

■ CNB415 CONTRACT ADMINISTRATION 2

Nominated sub-contractors and supplier; Adjustment of PC and Provisional Sums; Variations; Rise and fall; Progress claims and payments. Retentions and Bank guarantees. Delays and extensions of time; prolongation costs and liquidated damages; practical completion; completion. Final certificate. Insurances.

Course: CN43

Prerequisites: CNB314, CNB318

Credit Points: 9

Contact Hours: 3 per week

■ CNB416 CONSTRUCTION MANAGEMENT 4

Basis of employment (common law and statutory), construction industry infrastructure, conciliation and arbitration, the awards, alternative systems, negotiation with unions, ancillary legislation (Workplace Health and Safety, Equal Employment Opportunity etc.). Interpersonal skills, roles, expectations. Group interaction and dynamics, social motives and sources and resolution of conflict. Practical application of behavioural studies through case studies drawn from the building industry. Communications. Working with others. Team roles and work groups. Assertiveness, motivation.

Course: CN41 Prerequisite: CNB328
Credit Points: 12 Contact Hours: 4 per week

■ CNB417 RESEARCH PROJECT 1 ■ CNB418 RESEARCH PROJECT 2

History of building research; definition of research; Australian and international building research organisations; nature of the building industry and implications for research; financing research; future developments in building research; research management; research process. Development and presentation of a bibliographic report on any topic within the ambit of construction management.

Courses: CN41, CN43
Prerequisites: Final Year Subject
Credit Points: 12 Contact Hours: 4 each per week

■ CNB419 APPLIED COMPUTING 3

Computer software programs which can be used in the construction and property development processes. The unit is designed to co-ordinate the practical aspects of the lecture material presented each semester so that students both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The programs reinforce the applied subjects which are taken in year 3 of the full-time course and may include software packages covering: time and resource management; financial investment; project management.

Course: CN41
Prerequisites: CNB326, CNB328, CNB316
Co-requisite: CNB411
Credit Points: 9 Contact Hours: 3 per week

■ CNB421 ELECTIVE 1

■ CNB422 ELECTIVE 2

The student will choose Elective units to extend and expand an area of knowledge or experience to develop in depth a particular professional expertise. These subjects may be drawn from any relevant faculty within the QUT. The Electives are to be approved by the Course Coordinator prior to enrolment.

Course: CN43 Prerequisites: Final Year Subjects
Credit Points: 9 Contact Hours: 3 per week

■ CNB431 ELECTIVE 1

■ CNB432 ELECTIVE 2

The student will choose Elective units to extend and expand an area of knowledge or experience to develop in depth a particular professional expertise. These subjects may be drawn from any relevant faculty within the QUT. The Electives are to be approved by the Course Coordinator prior to enrolment.

Course: CN41 Prerequisites: Final Year Subjects
Credit Points: 9 Contact Hours: 3 per week

■ CNB440 LAW 3 – BUILDING CONTRACTS

Building and engineering agreements, practices relating to the building industry; contract law, elements, formation and discharge of a contract; contents of a valid contract, misrepresentation, collateral contract implied terms; contract documents and their interpretation;

breach of contract; major provisions in Australian Standard Forms of Building Contract.

Courses: CN31, CN33 Co-requisite: CNB404
Credit Points: 6 Contact Hours: 1 per week

■ CNB442 VALUATION & DILAPIDATIONS

Nature of value; effect of supply and demand of land and buildings; investment value and occupational value; types of landed property, incidents of their tenure, outgoings and comparison with other forms of investment; rates of interest required from different types of property; calculating rental value and net income and capitalisation of net income; use of valuation tables; liability for dilapidations; legal and equitable waste; implied, express contract covenants and statutory obligations to repair between landlord and tenant; landlords' remedies for breach of covenant to repair; liability for injuries to third parties.

Courses: CN31, CN33
Credit Points: 6 Contact Hours: 2 per week in Semester 1, 1 per week in Semester 2

■ CNB443 BUILDING SERVICES 3

Transportation of people and goods, passenger, goods and service lifts, planning disposition, control systems and construction; regulatory requirements, approximate traffic calculations; escalators and moving walks, use, widths and ratings, regulatory requirements and construction; planning of lift contracts and ancillary building work; cost of lifts; fire protection, sprinklers, detectors, alarms, extinguishers; telephone and sound systems; intrusion alarm systems; clock and time systems; acoustics.

Courses: CN31, CN33 Co-requisite: CNB253
Credit Points: 5 Contact Hours: 2.5 per week

■ CNB444 MECHANICAL & ELECTRICAL ESTIMATING

Mechanical and electrical systems, parameters influencing their design and application; types estimates and tenders; preliminaries, trade awards and wage rates; take-off procedures, costing and estimating make-up calculations; system costs in relation to total building, floor area, operating and maintenance cost, builders allowance for each system.

Courses: CN31, CN33
Prerequisites: CNB013, CNB014
Credit Points: 4 Contact Hours: 2 per week

■ CNB446 ESTIMATING 1

Building trades award and wages rates; hourly rate build up for equipment and trade services; calculation of preliminaries for a small suburban project.

Courses: CN31, CN33
Prerequisites: CNB006, CNB245
Co-requisite: CNB246
Credit Points: 5 Contact Hours: 2.5 per week

■ CNB451 COMPUTER SOFTWARE APPLICATIONS 1

Preparation of bills of quantities using computer software packages; hands-on experience in set-up of base accounts, trades, headings; measurement input; editing, correction and data manipulation; report generation in various bill of quantities formats; pricing using estimated and/or tendered rates; elemental analyses; computer measurement of contractual systems; specification and preamble development.

Course: CN33 Prerequisites: CNB246, ISB180
Credit Points: 4 Contact Hours: 2 per week

■ CNB452 COMPUTER SOFTWARE APPLICATIONS 2

Cost plan/estimates using computer software packages, including set-up of base accounts, parameter

specifications; elemental and detailed estimate measurement; editing, correction and data manipulation; report generation and formatting; development of labour constants, standard rates and items; pricing, tendering, spreadsheet application; contract administration, variation control, rise and fall of final accounts; progress payments; cash flow forecasts.

Course: CN33 Prerequisite: CNB647

Co-requisite: CNB648
Credit Points: 4 Contact Hours: 2 per week

■ CNB461 MEASUREMENT OF CONSTRUCTION 5

Methods of taking off and billing quantities in complex basement and foundation work in the trades underpinning, excavator, concreter, piling systems, structural systems in suspended slabs and walls.

Course: CN33 Prerequisites: CNB246, CNB254

Co-requisite: CNB341
Credit Points: 3 Contact Hours: 1.5 per week

■ CNB462 MEASUREMENT OF CONSTRUCTION 6

Methods of taking off and billing quantities in the trades plumber and drainer.

Course: CN33 Prerequisite: CNB347

Credit Points: 3 Contact Hours: 1.5 per week

■ CNB464 VALUATION 5 – RURAL

The physical and economic factors of rural land and its development, land utilisation and degradation, farm management and productivity, factors influencing rural valuations. Rural sales, valuation procedures and inspections. Practical assignments.

Course: CN32 Prerequisite: CNB268

Credit Points: 8 Contact Hours: 3 per week

■ CNB465 PROPERTY INVESTMENT ANALYSIS 1

Investment principles and strategy, property investment financing and evaluation, property investment market, time value of money concepts, cash flow techniques over time, application of CF techniques to property, feasibility studies, market analysis, risk analysis applied to property; the structure of detailed risk and return viability studies; portfolio theory applied to property; computer applications.

Courses: CN32, PS47

Prerequisites: CNB363, CNB667

Credit Points: 8 Contact Hours: 3 per week

■ CNB466 PROPERTY INVESTMENT ANALYSIS 2

See CNB465.

Course: CN32

Prerequisites: CNB363, CNB465, CNB667

Credit Points: 8 Contact Hours: 3 per week

■ CNB470 VALUATION 6 – RURAL

See CNB464.

Course: CN32

Prerequisite: CNB464

Credit Points: 8 Contact Hours: 3 per week

■ CNB471 PROPERTY PRACTICE LAW

Legal concepts and statutory requirements relevant to the property professional; legislation governing property valuation and real estate practice; the effect of relevant statutes on real property; standard real property contracts; law of torts; negligence; arbitration.

Courses: CN32, CN81 Prerequisite: CNB342

Credit Points: 8 Contact Hours: 2.5 per week

■ CNB472 PROPERTY TAXATION ISSUES

The implications of taxation on the overall profitability of property investments and developments. The dis-

inction between developer and investor, project funding, the interpretation of ordinary income and capital gains tax. Deductions for project expenditure, in particular interest, negative gearing, depreciation and building amortisation.

Courses: CN32, CN81 Prerequisite: CNB368

Credit Points: 8 Contact Hours: 2 per week

■ CNB501 BUILDING MANAGEMENT 3

Construction accounting methods and management of on and off site financial transactions; construction industry accounting procedures, profit and balance sheets.

Courses: CN31, CN33

Credit Points: 4 Contact Hours: 2 per week

■ CNB502 BUILDING MANAGEMENT 4

Search and selection of construction projects; the discount rate cost of capital, return on investment; cash flows and contract mark-up; risk uncertainty and inflation in capital investment decisions; analysis and interpretation of financial statements; sources of funds and classifications; bidding theory and strategy; prescribed payments taxation system.

Courses: CN31, CN33

Prerequisites: CNB404, CNB501

Credit Points: 4 Contact Hours: 2 per week

■ CNB520 SPECIFICATIONS

Compilation of specifications complementing architectural documents; definitions, objects and purpose of a specification; specification as a contract legal and working document; reference material and specification writing; use of Master specifications; outright and performance specifications and preparation of specified bills of quantities.

Course: CN33

Prerequisite: CNB254

Credit Points: 3 Contact Hours: 1.5 per week

■ CNB524 MEASUREMENT OF CONSTRUCTION 7

Methods of taking off and billing quantities in the trades of mechanical and electrical engineer, external works and preliminaries.

Course: CN33 Prerequisites: CNB013, CNB014

Credit Points: 4 Contact Hours: 2 per week

■ CNB526 POST CONTRACT SERVICES 1

Method of adjustment of provisional items, rise and fall entitlements; preparing valuation certificates for progress payments; cost control techniques used during the construction period; review of applicable contractual clauses; quantity surveying practice, adjustment to the contract sum for variations; feasibility studies; different types of contractual arrangement and selection of contractors.

Course: CN33 Prerequisites: CNB440, CNB540

Credit Points: 5 Contact Hours: 2.5 per week

■ CNB527 PM2 – QUANTITATIVE TECHNIQUES

Operations research techniques applied to the construction industry; linear programming; transportation and assignment methods; dynamic programming, decision trees; descriptive and inductive statistical methods applied to the construction/development industry and research; frequency distributions, measures of central tendency, dispersion; probability of variance, correlation and regression, sampling.

Courses: CN31, CN33

Prerequisites: CNB403, CNB404

Credit Points: 3 Contact Hours: 1.5 per week

■ CNB540 ESTIMATING 2

Build up of typical rates for demolition, dewatering, piling, underpinning, shoring/formwork to columns,

beams, walls and slab systems; reinforcement tying and fixing; concrete placing rates; precast erection; scaffolding, gantries, hoists and cranes, etc.; calculations of preliminaries for country and city projects.

Courses: CN31, CN33

Prerequisites: CNB009, CNB010, CNB246, CNB446

Credit Points: 5 **Contact Hours:** 2.5 per week

■ CNB543 LAW 4 – TORTS & ARBITRATIONS

Law of tort, negligence, professional negligence, duty of care, liability, occupiers' liability, nuisance, fraud and conversion; arbitration, nature of and comparison with actions of law; reference by consent; the arbitration agreement, parties subject matter, appointment of arbitrators; conduct of an arbitration; powers and duties of an arbitrator; rules of evidence; validity of publication and enforcement of an award; costs.

Courses: CN31, CN33

Prerequisite: CNB440

Credit Points: 3 **Contact Hours:** 1.5 per week

■ CNB545 PM3 – CONSTRUCTION PLANNING TECHNIQUES 1

Application of construction planning and control techniques; bar charts; critical path networks, arrow and precedence diagrams; updating control and reporting techniques; line of balance.

Courses: CN31, CN33

Prerequisites: CNB246, CNB254, CNB404, CNB446

Co-requisite: CNB540

Credit Points: 7 **Contact Hours:** 3.5 per week

■ CNB548 PM4 – CONSTRUCTION PLANNING TECHNIQUES 2

Resource management; basic and production planning techniques; planning and control for various types of projects; misuse and abuse of planning and legal problems associated with CPM.

Course: CN31

Prerequisite: CNB545

Credit Points: 8 **Contact Hours:** 4 per week

■ CNB550 PM5 – PROJECT COST CONTROL

Financial planning and cost control of the construction project; the development time relationships, cost consequences of design decision; preconstruction budget, budget management, materials control; performance analysis; trend evaluation; forecasting techniques, progress reports, cost reports; financial status reports; computer applications in expenditure; equipment policy, equipment economics, maintenance management; contract administration, processing payments, negotiating extensions and prolongation claims, rise and fall, prescribed payments.

Course: CN31

Prerequisites: CNB403, CNB404, CNB501

Credit Points: 6 **Contact Hours:** 3 per week

■ CNB552 OFFICE MANAGEMENT

Scale of fees and professional charges; code of ethics; letters of engagement; law involving the quantity surveyor and client, professional indemnity; image and status; office management and procedures.

Course: CN33

Credit Points: 2 **Contact Hours:** 1 per week

■ CNB561 PROPERTY MAINTENANCE

Technological, legal and financial factors in property maintenance, including taxation issues; the nature and importance of building maintenance; concept of building maintenance, liability for defects; capital, maintenance and running costs; quality control; government policy; planning of maintenance including inspections, long and short term; maintenance policies, cycles and profits, maintenance audits, maintenance manuals; building stock age and conditions, statistics; maintenance

standards; application, attitude, quality control, responsibility; statutory requirements: Building Act, defective premises, Factories Act, fire precautions, health and safety; cost control; estimates and budgets, performance measures; life cycle costing.

Course: CN32

Prerequisite: CNB261

Credit Points: 8

Contact Hours: 3 per week

■ CNB563 STATUTORY VALUATION

Capital taxation as it affects property transactions. Valuations for: tax and taxation of capital gains; for statutory rating purposes under relevant legislation appeals procedure; for compulsory acquisition; assessment of compensation resulting from acquisition, resumption and damage. Evidence; the expert witness and professional liability; mock court.

Course: CN32

Prerequisites: CNB363, CNB364

Credit Points: 8

Contact Hours: 3 per week

■ CNB564 VALUATION 7

Valuation of specialist-type properties including licensed premises, hotels, service stations, entertainment and public properties. The valuation of corporate assets for organisational and balance sheet purposes. The future role of the valuer.

Courses: CN32, CN81

Credit Points: 8

Contact Hours: 3 per week

■ CNB565 LAND MANAGEMENT

Land resource management, ecology, regional land systems, coastal and riverine development issues; environmental degradation, land contamination; heritage values and management.

Courses: CN32, PS47

Credit Points: 8

Contact Hours: 3 per week

■ CNB567 REAL ESTATE MARKET ANALYSIS

Review of theory of price, and applied economics of markets: determinants and conditions of supply and demand, market equilibrium, competition, economic cycles. Real property markets, identification of submarkets: Residential and non-residential markets. Significance of tenure. Impact of government policies, sources of data; analysis of ABS data. Applied studies of nominated submarkets. Market analysis techniques, trends and studies: local, national and overseas. Future trends.

Courses: CN32, PS47

Credit Points: 4

Contact Hours: 2 per week

■ CNB568 REAL ESTATE PRACTICE

Management concepts in real estate; a business plan; office administration: staff recruitment and training; trust accounts; a composite real estate practice.

Courses: CN32, CN81, PS47

Credit Points: 5

Contact Hours: 2.5 per week

■ CNB601 FORMWORK DESIGN & CONSTRUCTION

Formwork building, quality, safety, control; formwork planning, re-use, materials and hardware; cost hire or buy; erecting and stripping; scheduling, loads and pressures on slab, beams, column and wall forms; form design and design tables; formwork drawing and detailing; building and erecting formwork, architectural forms, precast concrete; special techniques and prestressing; proprietary formwork systems, simple falsework design.

Courses: CN31, CN81

Prerequisite: CNB146

Co-requisite: CNB253

Credit Points: 4

Contact Hours: 2 per week

■ CNB603 BUILDING MANAGEMENT 5

The construction labor market, supply and demand,

awards, conditions and earnings differentials; role of the construction trade unions and negotiations between employer and unions; construction conciliation and arbitration systems; strikes and lockouts; workers compensation acts and regulations etc.

Courses: CN31, CN33

Credit Points: 4 Contact Hours: 2 per week

■ CNB606 PM8 – LAND DEVELOPMENT STUDIES

The structure, operation and control of the land development industry including the politico-economic framework; land use plans and approval mechanisms of subdivisible land; financial aspect of development projects, trends and prospects in the housing development industry.

Course: CN31

Prerequisite: CNB623

Credit Points: 4 Contact Hours: 2 per week

■ CNB623 PM6 – BUILDING DEVELOPMENT TECHNIQUES 1

Feasibility, market and location surveys; cost analysis; evaluation techniques, conventional and discounting; cash flows and sensitivity analysis; authorities, development restrictions, services; profitability, commercial assessment, land values, options; purchase, terms, legal documentation, consolidation, surveys; commissioning design team, building use, facilities, quality, staging; instruct consultants, analyse alternatives, value engineering, marketability, income and outgoings; cost and time control from sketch design to completion; tender procedures and negotiations, contract documentation; leasing, brochures, publicity, letting agents, targets; authorisation of payments, monthly reports, coordination meetings; financing projects and cash flow.

Courses: CN31, CN33

Credit Points: 4 Contact Hours: 2 per week

■ CNB624 PM7 – BUILDING DEVELOPMENT TECHNIQUES 2

See CNB623.

Courses: CN31, CN32, CN33

Prerequisite: CNB623

Credit Points: 4 Contact Hours: 2 per week

■ CNB626 LAND DEVELOPMENT STUDIES

See CNB606.

Courses: CN32, CN81

Co-requisite: CNB623

Credit Points: 4 Contact Hours: 2 per week

■ CNB642 APPLIED COMPUTER TECHNIQUES

Evaluation of a range of commercial computer programs designed for the construction industry.

Course: CN31

Prerequisite: CNB548

Credit Points: 6 Contact Hours: 3 per week

■ CNB643 LAW 5 – COMMERCIAL LAW

The law as it affects the construction industry; sale of goods, hire purchase; negotiable instruments; insurance law; partnership law and general principles of company law; bankruptcy and liquidation.

Courses: CN31, CN32, CN33

Prerequisites: CNB404, CNB502

Credit Points: 3 Contact Hours: 1.5 per week

■ CNB647 COST PLANNING & COST CONTROL 1

The significance of construction economics for the client, the professions, the industry and society; historical development, need for and main aims of cost control; comparing cost planning and approximate estimating; cost implication of design variable, shape, size, perimeter, storey height; cost implications of construction methods of site and market conditions, or prefabrication and industrialisation; types of approximate

estimates; cost analyses, indices and data; cost in use, maintenance and running costs, the life of buildings and components; taxation and insurance.

Course: CN33

Prerequisites: CNB005, CNB006, CNB009, CNB010, CNB446, CNB461, CNB462, CNB524, CNB540

Credit Points: 4 Contact Hours: 2 per week

■ CNB648 COST PLANNING & COST CONTROL 2

Continuation of CNB647.

Course: CN33

Prerequisite: CNB647

Co-requisite: CNB452

Credit Points: 4

Contact Hours: 2 per week

■ CNB653 POST CONTRACT SERVICES 2

Continuation of CNB526.

Course: CN33

Prerequisite: CNB526

Credit Points: 5

Contact Hours: 2.5 per week

■ CNB656 BUILDING RESEARCH

History of building research; definition of research; Australian and international building research organisations; nature of the building industry and implications for research; financing research; future developments in building research; research management; research process; development and presentation of a bibliographic report.

Courses: CN31, CN33

Prerequisites: Final year

Credit Points: 18

Contact Hours: 4.5 per week

■ CNB661 RESEARCH DISSERTATION 1

Develop an ability to disseminate and evaluate information and specialised knowledge and acquire an understanding of research methodology. Encompasses the definition, history, financing, future prospects and management of research. Students select a research subject, test its workability, develop procedures, prepare an outline for the study, draft the preliminary section and, after a series of critiques, present a bibliographic report, prepare a case study or project based upon an unusual or complex process within a relevant professional area, prepare a report and give an oral presentation.

Course: CN32

Credit Points: 8

Contact Hours: 4 per week

■ CNB662 RESEARCH DISSERTATION 2

See CNB661.

Course: CN32

Prerequisite: CNB661

Credit Points: 8

Contact Hours: 4 per week

■ CNB663 PROPERTY DEVELOPMENT 1

An overview of the project development process from inception to occupancy as a prelude to detailed study of discrete parts of the process. See CNB623/4.

Course: CN32

Prerequisite: CNB626

Credit Points: 5

Contact Hours: 2 per week

■ CNB664 PROPERTY DEVELOPMENT 2

See CNB663.

Course: CN32

Prerequisite: CNB663

Credit Points: 6

Contact Hours: 2 per week

■ CNB665 PROPERTY MANAGEMENT 1

The role and importance of property management. The legal and physical parameters governing the establishment, holding, use and income generation of property assets. Theoretical and practical knowledge of the operation of components of property management. The management of residential, retail, industrial and commercial buildings. Main statutory provisions relating to above tenancies. Tenancy agreements, management records and accounts. Insurance. Cash flow and credit control.

Courses: CN32, PS47

Credit Points: 9

Contact Hours: 3 per week

■ CNB666 PROPERTY MANAGEMENT 2

See CNB665.

Courses: CN32, PS47

Prerequisite: CNB665

Credit Points: 8

Contact Hours: 3 per week

■ CNB667 APPLIED COMPUTER TECHNIQUES

Designed to give students hands-on experience and to demonstrate contemporary commercial software; on completion, students should be able to evaluate a range of commercial and non-commercial computer programs designed for the property development and construction industry; covers accounting and cost control packages; feasibility studies; maintenance packages; CPM, network analysis techniques.

Course: CN32

Prerequisite: CNB363

Credit Points: 8

Contact Hours: 3 per week

■ CNN441 DISSERTATION

See CNN442.

Courses: CN77

Credit Points: 48

■ CNN442 DISSERTATION

The dissertation may be of a research or investigative nature on any approved area related to project management or property development. Suitable topics will be discussed and arranged with students each year. Each student will need to negotiate a suitable topic with a supervisor and will be examined by means of a dissertation by that supervisor and the unit moderator. Incorporates IFN001 Advanced Information Retrieval Skills which must be taken.

Courses: CN77

Credit Points: 48

■ CNP400 MANAGEMENT OF TECHNOLOGY

Introduces key concepts in management of technology and shows how these can be implemented. Further the understanding of the role of technology and its efficient management to build and maintain a competitive edge in business. Management of technology links engineering, science and management principles to identify, choose, and implement the most effective means of attaining compatibility between internal skills and resources of an organisation and its competitive, economic and social environment. Course covers: technology and competitive advantage, technological trends and forecasting, acquisition of technology, and managing the technical function.

Courses: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP401 MANAGEMENT OF TECHNOLOGY

Introduces key concepts in management of technology and shows how these can be implemented. Further the understanding of the role of technology and its efficient management to build and maintain a competitive edge in business. Management of technology links engineering, science and management principles to identify, choose, and implement the most effective means of attaining compatibility between internal skills and resources of an organisation and its competitive, economic and social environment. Course covers technology and competitive advantage, technological trends and forecasting, acquisition of technology, and managing the technical function. Advanced use of industry case studies and assignments.

Courses: BS81

Credit Points: 12

Contact Hours: 2.5 per week

■ CNP402 PRINCIPLES OF VALUATION

Basic concepts and principles of real property value. Definitions of value. Process and methods used in property valuation. Ethics Factors influencing accuracy of

valuations. The comparative approach. Valuations of vacant land and residential property. Valuation inspection and reports. Practical valuation assignments. Summation. Investment valuation; rental value, outgoings.

Course: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP403 PROPERTY MAINTENANCE & ASSET MANAGEMENT

Technological, legal and financial factors in property maintenance, including taxation issues; the nature and importance of building maintenance: concept of building maintenance, liability for defects; capital, maintenance and running costs; quality control; government policy; planning of maintenance including inspections, long and short term; maintenance policies, cycles and profits, maintenance audits, maintenance manuals; building stock age and conditions, statistics; maintenance standards: application, attitude, quality control, responsibility; statutory requirements: Building Act, defective premises, Factories Act, fire precautions, health and safety; cost control: estimates and budgets, performance measures; life cycle costing.

Course: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP404 ADVANCED LAND DEVELOPMENT

The structure, operation and control of the land development industry including the politico-economic framework; land use plans and approval mechanisms of subdivisible land; financial aspect of development projects, trends and prospects in the housing development industry. Advanced assessment.

Courses: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP406 INTERNATIONAL PROJECT MANAGEMENT

Examines international trends in project management from the perspective of the Australian project manager. Compares technical, managerial, economic and cultural concepts and issues related to project management in the global marketplace. Discusses emerging opportunities and misconceptions, with particular reference to the Asia-Pacific region. Provides the opportunity for international and local students to exchange ideas through the use of applied case studies and discussion groups. Lectures supported by a series of specialist industry lecturers.

Courses: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP417 DESIGN MANAGEMENT

The nature of design and the factors which influence the process of design. It includes planning, managing and controlling the design process from inception to detailed documentation; decision sequences in design; appreciation of the consequence of design decisions on the total project; the inter-relationships between architectural design and engineering and service design requirements; briefing techniques.

Courses: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP422 SPECIALIST VALUATIONS

Theory of value, valuation types and approaches, practical approaches to the following valuation types: rating, compensation for compulsory purchase, investment, own-use, property assets, portfolios, public and specialist properties. Assessment of potential.

Courses: CN64, CN77, CN81

Credit Points: 6

Contact Hours: 2 per week

■ CNP426 PROJECT DEVELOPMENT

Site selection and acquisition; securing the land; authority negotiation and approvals; authority approvals; resource planning; acquisition/procurement; project co-ordination; construction management; commissioning and occupation; property management; project finalisation; post control evaluations; project management objectives of cost time and quality; process overview; project stages; management principles; feasibility/justification; preliminary brief; development objective, motivation and needs; feasibility studies; project feasibility/justification; finance for projects; marketing.

Courses: CN64, CN77, CN81

Credit Points: 12 **Contact Hours:** 2 per week

■ CNP429 COST MANAGEMENT & ECONOMICS

Financial statements; investment decisions; economic evaluation; financing decisions; life cycle costing; control systems; management accounting and reporting; information systems; cost planning theories and techniques; the economy.

Courses: CN64, CN77, CN81

Credit Points: 6 **Contact Hours:** 2 per week

■ CNP430 CURRENT ISSUES

The unit is very much an integrative study area. There are two main strands: the integration, under the project management umbrella, of areas already studied; and the integration of recent and topical developments in the area of project management. Areas may include: quality management, case studies, computer applications and selection, technology, simulation exercises (Arousal, Bicep), recent developments, change management, ethics, panel discussions, research presentations. Some of these topics will be covered by guest speakers from industry or presented in seminars.

Courses: CN64, CN77, CN81

Credit Points: 12 **Contact Hours:** 2 per week

■ CNP431 PROJECT MANAGEMENT

Introduction to theory of project management in the areas of communication, management and organisation as it applies to the project situation. Communication – process, skills, environment, applications; management theory and organisation theory. Negotiation. Project team building. Motivation theory. Construction and project leadership. Change. Strategic management and planning. Personnel. Decision-making strategies. Stress management. A series of case studies will be used to integrate the issues.

Courses: CN64, CN77, CN81

Credit Points: 12 **Contact Hours:** 2 per week

■ CNP433 PROJECT MANAGEMENT LAW

Introduction to the legal system; contract law; elements of contract; contents of valid contract; legal issues and problems associated with project management contracts; arbitration; property law; international law; planning law.

Courses: CN64, CN77, CN81

Credit Points: 12 **Contact Hours:** 2 per week

■ CNP434 TIME MANAGEMENT

Use of planning techniques for project control; effective planning; PERT; CPM; bar charts and line of balance; arrow networks; precedence networks; time and cost control; resource control and levelling; computer software; control and reporting techniques. Emphasis is on the development of practical skills, based on established theory, immediately applicable to the project management or development industry.

Courses: CN64, CN77, CN81

Credit Points: 6 **Contact Hours:** 2 per week

■ CNP437 FIELD TRIP

An experiential field trip of four days duration in an adventure-style environment. The emphasis is on team building, working in a stressful environment, communication skills, personal discovery and extension, and building trust and relationships. The activities will be oriented to achieving greater awareness of and competence in the above areas. Students are required to contribute towards the cost of this externally offered unit.

Courses: CN64, CN77, CN81

Credit Points: 6 **Contact Hours:** 4 days

■ CNP438 REAL ESTATE INVESTMENT ANALYSIS

Investment principles, characteristics, goals and strategies; investment alternatives, property investments and evaluation techniques; current property investment market in Australia; basic risk and return measures and financing; time value of money concepts, PV, FV, PMT, and dual rates; cashflow models and partial interests; NPV's and IRR's and their applications; cash flow assumptions and rates of return; practical cash flow applications and spreadsheets; financial feasibility study models; tax issues related to property investment; property type selection.

Courses: CN64, CN77, CN81

Credit Points: 6 **Contact Hours:** 2 per week

■ CNP439 PROPERTY MANAGEMENT

The motivation, instrumentation and application of property management for commercial and industrial real estate, including lease construction, rental valuations, rent review, review types, budgeting, outgoings and physical management. Trends and prospects.

Courses: CN64, CN77, CN81, PS69

Credit Points: 6 **Contact Hours:** 2 per week

■ CNP667 APPLIED COMPUTING

The application of computer programs in the financial and physical management process of property development, project management and investment.

Courses: CN64, CN77, CN81

Prerequisite: CNB363

Credit Points: 6 **Contact Hours:** 2 per week

■ COB100 ORGANISATIONAL COMMUNICATION INTERNSHIP

The identification and critical analysis of organisational communication issues through planning a course of action; using research to monitor change; applying problem-solving skills.

Course: BS50, BS78

Prerequisites: COB103 or COB112 or COB123

Credit Points: 12 **Contact Hours:** 3 per week

■ COB101 COMPUTER MEDIATED COMMUNICATION

Information access and distribution; organisational networks; computerised text analysis and style replicators; the human-machine interface and interpersonal relationships.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB102 CONSULTING FOR ORGANISATIONAL CHANGE

Models of planned change; the change agent; change project management; diagnostic interventions; collecting, analysing and feeding back data; designing interventions; interpersonal and group process interventions; organisational process interventions; organisational strategy interventions; technostructural interventions; transition processes; professional ethics; evaluating and institutionalising change.

Courses: BS50, BS78, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ COB103 PERSPECTIVES ON ORGANISATIONS & ENVIRONMENT

Contemporary views of organisations, work and management; concepts and skills necessary for analysing and understanding organisations and organisational processes.

Courses: BS50, BS78 Prerequisite: COB129
Credit Points: 12 Contact Hours: 3 per week

■ COB104 DRAMATURGY FOR PROFESSIONALS

This unit concentrates on the relational level of communication. It looks at structure and style of message with special emphasis on the non-verbal languages. It is based on dramaturgical and experiential models. The theoretical perspectives of semiotic message analysis and action research informs the practical exercises used. Drama is the base from which life scripts are examined.

Course: BS50
Credit Points: 12 Contact Hours: 3 per week

■ COB105 BUSINESS ETHICS

An overview of the diverse ethical theories which may be used in analysing business ethics problems.

Course: BS50
Credit Points: 12 Contact Hours: 3 per week

■ COB106 GROUP COMMUNICATION: THEORY & PRACTICE

Exploration and practice in interpersonal communication skills such as listening, assertion and negotiation. Business and media interviewing and small group communication in organisational settings provide the focus for the program. Interpersonal and group communication theory is a theoretical base for analysing communication performance. Students practice problem-solving strategies by rehearsing vocational situations.

Courses: BS50, BS72, IT20 Prerequisite: COB134
Credit Points: 12 Contact Hours: 3 per week

■ COB107 INTERCULTURAL COMMUNICATION

The social and cultural factors which affect communication with people in other countries for business and related purposes; the influence of values, beliefs and customs on the communication process.

Course: BS50
Credit Points: 12 Contact Hours: 3 per week

■ COB108 INTER-ORGANISATIONAL RELATIONS

The ways organisations interact; classic views reflecting competitive relationships contrasted with emerging forms, including cooperatives and strategic alliances; cross-cultural aspects of organisational forms and relationships; reference to Pacific rim nations.

Courses: BS50, BS78
Credit Points: 12 Contact Hours: 3 per week

■ COB109 ISSUES IN PUBLISHING

The processes involved in book and magazine publishing; changing media habits and literacy skills of consumers; the impact of technology and business; strategic positioning; editorial concepts and steps in production.

Course: BS72
Prerequisites: COB138 for undergraduate students; Nil for postgraduate students.
Credit Points: 12 Contact Hours: 3 per week

■ COB110 ORGANISATION & SOCIETY

The broad context (the society and culture) within which organisations operate; students develop an awareness of the influence of Australian society on the

nature and operation of formal organisations and of the impact of various organisations on government and business.

Course: BS50
Credit Points: 12 Contact Hours: 3 per week

■ COB112 ORGANISATIONAL COMMUNICATION

Identifies and explores a range of issues of importance in organisations: organisational climate, organisational culture, power and politics, influence strategies, organisational change, gender issues, impact of technology, ethics. Functionalist, interpretive, and critical perspectives provides a focus for this exploration.

Courses: BS50, BS72, BS78
Prerequisites: COB106 (may be co-requisite); nil for postgraduate
Credit Points: 12 Contact Hours: 3 per week

■ COB113 THEORETICAL PERSPECTIVES ON COMMUNICATION

An overview of the major theoretical and methodological approaches in the study of communication within a professional context.

Courses: BS50, BS72
Credit Points: 12 Contact Hours: 3 per week

■ COB114 TRENDS IN ORGANISATIONAL DESIGN

New perspectives in organisational design. Topics include: the future of work; classical perspective on design; open systems perspectives; socio-technical systems perspectives; remote working; organisation learning; collaboration within and between organisations; experiments in work design; cooperatives; networks; the problem of power; distribution.

Courses: BS50, BS73 Prerequisite: COB129
Credit Points: 12 Contact Hours: 3 per week

■ COB118 COMMUNICATION TECHNOLOGY IN ORGANISATIONS

Concepts and applications of communication technology which impact on information processing and communication in organisations.

Courses: BS50, ED50
Credit Points: 12 Contact Hours: 3 per week

■ COB119 TEXT FORMATTING & TRANSCRIPTION

The use of technology for document preparation, analysis of underlying principles of skills acquisition; traditional and technological perspectives on: document design, document formatting, business correspondence, tabulation, financial statements, business forms, document formatting for specialised businesses and transcription.

Course: ED50
Credit Points: 12 Contact Hours: 3 per week

■ COB120 BUSINESS COMMUNICATION

The way in which electronic production and transmission is complementing traditional methods of communication in organisations.

Courses: BS50, ED50
Credit Points: 12 Contact Hours: 3 per week

■ COB121 RECORDS MANAGEMENT

The paper-based and electronic records and information systems operating within and between organisations; the impact that changes in communication technology have had on these systems.

Course: ED50
Credit Points: 12 Contact Hours: 3 per week

■ COB122 OFFICE PROCEDURES

Communication technology and its impact on functions

and operational procedures in offices.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB123 ISSUES IN COMMUNICATION TECHNOLOGY

The impact of communication technology on work structures and job design; the social issues resulting from its adoption and implementation.

Courses: BS50, ED50

Prerequisite: COB118

Credit Points: 12 **Contact Hours:** 3 per week

■ COB124 OFFICE TRANSCRIPTION A

Students analyse the process of skills acquisition and gain a knowledge and understanding of skill development as it applies to shorthand and other forms of transcription.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB125 OFFICE TRANSCRIPTION B

Students analyse the process of skills acquisition; provides a knowledge and understanding of skill development as it applies to shorthand and other forms of transcription. Students will have previous knowledge of shorthand.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB126 SUPERVISION & ADMINISTRATION

The impact of technological change on the supervision and administrative practices as they relate to communication processes in organisations; the role and duties of supervisory and administrative personnel in information processing; the impact on these roles and duties through the technology.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB128 SUPERVISED PROJECT

An individual research project investigating an approved aspect of communication technology.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB129 ORGANISATIONAL PROCESSES

Organisations are examined from four perspectives: individual, group, organisational and community; emphasis on developing skills for making organisations effective, efficient and humane.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ COB134 SPEECH COMMUNICATION: THEORY & PRACTICE

This unit uses the theoretical perspective of rhetoric as a base. It examines verbal, non verbal and visual modes of communication. The concepts learned are applied to the development of clear and expressive self-presentation skills for speaking in professional situations, such as (a) proposals to committees, eg management or peers; (b) presentations to clients; (c) business interview situations; (d) persuasive presentations to large groups eg the public, large company meetings, etc.

Courses: BS50, IF52, IF54, IS43, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ COB136 PROFESSIONAL COMMUNICATION

Communicating successfully orally and in writing in professional situations. An understanding of the concepts and skills required for effective formal reporting and persuasive writing, oral reporting and persuasive speaking, group decision making and meeting procedures, leadership and participation.

Courses: ME46, PH38

Credit Points: 6

Contact Hours: 2 per week

■ COB138 WRITTEN COMMUNICATION: THEORY & PRACTICE

The principles of expository and persuasive writing in academic and business contexts.

Courses: BS50, BS72, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ COB144 CREATIVE LANGUAGE FOR COMMUNICATORS

Development of advanced skills in written communication, and in dealing with a variety of communicative and textual forms; the various forms of effective communication; communication theory and critical theory. Designed for journalism and professional writing students especially.

Courses: BS50, IF52, IF54, IS43

Prerequisite: COB138

Credit Points: 12 **Contact Hours:** 3 per week

■ COB147 CREATIVE WRITING & PUBLISHING

Creative writing involves the communication of ideas and values within a social framework; students examine the creative writing process with emphasis on the short story and editing; problems of publishing and marketing as a professional writer are considered, especially for the professional communicator.

Course: BS50

Prerequisite: COB138

Credit Points: 12 **Contact Hours:** 3 per week

■ COB154 ORGANISATIONAL SOCIOLOGY

Organisations in the public sector; builds upon the Introduction to Sociology and Theory and Administration units to provide a detailed understanding of organisation theory.

Course: BS50

Prerequisites: Eight units in the Bachelor of Business degree

Credit Points: 12 **Contact Hours:** 3 per week

■ COB156 ADVANCED SECRETARIAL STUDIES

Extends the professional education of teachers of Secretarial Studies and provides an opportunity to broaden knowledge of concepts and application of technology, its impact on functions, procedures and supervisory practices in organisations.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ COB157 CORPORATE WRITING & EDITING

The specific requirements of writing in the corporate environment; principles and procedures in writing management submissions, reports, and manuals, as well as letters, memos and resumes; the content, style and presentation of documents for specific readers.

Courses: BS50, BS72

Prerequisite: COB138

Credit Points: 12 **Contact Hours:** 3 per week

■ COB158 ADVANCED SPEECH COMMUNICATION (THEORY & PRACTICE)

This unit is based on the semiotic perspective and uses practical drama as the tool for learning. It explores communication theory i.e. verbal structure, paralanguage, proxemics, kinesics etc. The concepts learned are applied to the development of expressive self-presentation skills in the business environment.

Course: BS50

Prerequisite: COB134

Credit Points: 12 **Contact Hours:** 3 per week

■ COB159 RESEARCH CONCEPTS & TECHNIQUES

Main conceptual and theoretical traditions of research and practical techniques; qualitative approaches include focus groups and action research; quantitative techniques include surveys and experimental studies. Research institutions; ethical issues; relationship between consumers and researchers.

Course: BS50

Credit Points: 12 Contact Hours: 3 per week

■ COB160 PROFESSIONAL COMMUNICATION (BUSINESS)

Principles and strategies that enable students to cope with the complex rhetorical demands of writing and speaking within the organisational culture.

Courses: AA21, BS50, IT32, IF56, PU49

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: The completion of both COB134 and COB138

■ COB161 INDEPENDENT STUDY UNIT

An opportunity for advanced level undergraduate students to undertake individual research in an area which is complementary to their course work.

Course: BS50

Prerequisites: 8 units

Credit Points: 12 Contact Hours: 3 per week

■ COB162 COMMUNITY BASED ORGANISATION: STRUCTURE & PROCESSES

Community improvement, service, cultural and economic development organisations and associations in Australian society; their background, purposes, means of operation and relationship with their environment and wider society; the skills necessary to develop and maintain success organisations.

Course: BS50

Prerequisite: COB129

Credit Points: 12 Contact Hours: 3 per week

■ COB163 PROFESSIONAL WRITING

The principles of, and strategies for, writing effective technical documents. Practical understanding of written language: organising ideas, and presenting those ideas in a cohesive text using generic features appropriate to the technical professions.

Courses: AR41, AR48, BN30, CN41, CE42, CN32, CN43, EE43, EE44, IF23, ME45, PS47

Credit Points: 6 Contact Hours: 1.5 per week

■ COB164 INTERPERSONAL COMMUNICATION

The principles of, and strategies for, effective interpersonal communication.

Courses: ME35, PU48

Credit Points: 8 Contact Hours: 2 per week

■ COB165 PROFESSIONAL WRITING & LEARNING AT UNIVERSITY

The principles of, and strategies for, writing effective technical documents. Practical understanding of written language, organising ideas, presenting ideas cohesively using appropriate generic features. Developing effective learning strategies. Planning and controlling knowledge acquisition effectively.

Courses: CN41, CN43

Credit Points: 8 Contact Hours: 2.5 per week

■ COB166 TECHNICAL & SCIENTIFIC WRITING

The development of writing skills for scientists and technological professionals, based on a practical and theoretical understanding of scientific and technical discourse.

Courses: IT20, SC30

Credit Points: 12 Contact Hours: 3 per week

■ CON101 COMMUNICATION STRATEGIES

Communication theory put into practice. Examples of policy and plans; how to produce the appropriate change through communication. The ethics of persuasion and the problems of cooperation explored in the process of policy formation and planning. Students take into account the social implications of producing change, the role of the change agent and ways to monitor the effects in Australia as well as developing societies. Alternative perspectives for strategic thinking and application in the environments of marketing, advertising, editorial journalism, organisational communication, public relations, public affairs and public information.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

■ CON102 ADVANCED ORGANISATIONAL COMMUNICATION

How people relate in modern organisational settings, from small businesses to multi-national organisations in the public and private sector; communication up, down and across the organisation, among divisions and work units, among different professional and vocational specialities and within work teams; a problem-solving, interdisciplinary approach with reference to social psychology, sociology, culture theory, systems thinking and network analysis.

Courses: BS72, BS84

Credit Points: 12 Contact Hours: 3 per week

■ CON103 ADVANCED COMMUNICATION MANAGEMENT

Allows students, after an exposure to the diverse field of communication, to review aspects of this field in depth. Current issues in the theory and practice of human communication. Student and lecturing staff use the various perspectives, theories and applications explored in the program to consider the management of communication programs and systems.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

■ COP106 COMMUNICATION THEORY 1

Interpersonal, group, organisational, interorganisational and mass communication; attention is paid to human systems and interaction in human relationships; provides an integrative view of the classical and emerging studies and theories in communication; lays the theoretical foundation for research projects.

Courses: BS61, BS72, BS84

Credit Points: 12 Contact Hours: 3 per week

■ COP108 COMMUNICATION TECHNOLOGIES & SOCIETY

Overviews the state of the art and studies current and future applications, basic models and theories, the common technical terms, the economics of the fundamental electronics behind the research and the practice of telecommunications, other hardware delivery systems and information technology.

Courses: BS61, BS84

Credit Points: 12 Contact Hours: 3 per week

■ COP110 SOCIAL & ORGANISATIONAL CHANGE

The origins, nature and effect of social change on individuals, organisations and communities; theories and models of change are used to explore planned and unplanned changes currently occurring, particularly as these relate to possible futures; emphasis is on the strategies and skills required to initiate and participate in effective change management.

Course: BS78

Credit Points: 12 Contact Hours: 3 per week

■ COP115 PROFESSIONAL COMMUNICATION

Oral and written presentation. Planning and organising ideas. Structuring reports and oral presentations. Improving cohesion, clarity and style. Integrating written and oral communication.

Course: PS67

Credit Points: 4 Contact Hours: 2 per week

■ COP118 MANAGING HUMAN SERVICES ORGANISATIONS 1

The management task in human service organisations; managerial paradigms and the development of an empowering managerial framework; analysis of cultures in human service organisations, personal and interpersonal skills including career, time and stress management, and working collaboratively with co-workers and managers.

Course: BS78

Credit Points: 12 Contact Hours: 3 per week

■ COP119 MANAGING HUMAN SERVICES ORGANISATIONS 2

Managerial skills in human service organisations: action planning, recruitment and selection, staff support and development, dealing with problem workers, developing collaborative work groups, decision making, leading meetings, managing conflict.

Course: BS78

Prerequisite: COP118

Credit Points: 12 Contact Hours: 3 per week

■ COX194 COMMUNICATION TECHNIQUES

Techniques of technical writing appropriate to applied science vocations; technical report writing, writing for non-technical audiences; application of communication principles in technical writing; application of communication principles to non-written communications; individual and group speaking; speech writing; oral delivery of technical papers; formal meeting procedures.

Course: LS12

Credit Points: 4 Contact Hours: 2 per week

■ CPB330 ABORIGINAL & TORRES STRAIT ISLANDER EDUCATION POLICY

Historical, economic, social factors influencing the position of Aborigines and Torres Strait Islanders; cultural factors and educational policies and programs; development of policies and programs appropriate for these people.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB331 ASIAN CULTURE & EDUCATION

Provides pre-service teachers with knowledge and skills for working in the Asian context of Australian education. Content includes: cultural forms in Asia; contemporary socio-political developments; past and present educational strategies; promoting informed Asian awareness in curriculum and classrooms.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB332 SCHOOL – COMMUNITY RELATIONS

The range of inter-relationships between communities and educational activities; comparative studies; policy and its implications for developing strategies; techniques and skills for analysing community needs; some skills to improve effectiveness in working with the community.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB333 POLICY MAKING AND CHANGING SCHOOL PRACTICES

The relevance of contemporary policy initiatives for

classroom and school practices; how policy may be used strategically to enhance professional practice and to provide skills in critical policy analysis. How beginning teachers may respond critically and constructively to pressures within devolved education systems to participate in policy formation, assessment and implementation.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB334 POWERFUL TEACHERS, POWERFUL STUDENTS

Thematic questions about teaching: understanding the current notion of teacher/student power; ways of understanding teacher/student power and teaching through powerful and empowering teaching/learning models; the practical knowledge needed to empower beginning teachers.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB335 TEACHER AS RESEARCHER

The role that research can play in improving their everyday practice. Draws on advocacy models of research to develop actual strategies by which practitioners can inform their own educational work and evaluate its effectiveness.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB336 EDUCATION & CULTURAL DIVERSITY

The complex issues involved in catering for cultural diversity in schools and other education settings and strategies for professional practice in contexts of cultural diversity. Contents include: cultural change in education; racism in schooling; curriculum issues; English as a second language; school-community relations.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB337 GENDER & EDUCATION

The significance of gender issues in education, together with knowledge of relevant research and policy developments. There will be an emphasis on the implications for school organisation, curriculum and teaching strategies.

Courses: ED37, ED50, ED51, ED52, NS48, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB338 IDENTIFYING & RESPONDING TO STUDENT DIFFERENCES

The range of perceptions and reactions to individual difference; the psychological explanations for the socio-cultural contexts of difference in schools; perspectives on the identification and classification of special educational needs. From a commitment to social justice and equity, it examines policy initiatives which impact on learners and teachers; identifies appropriate strategies.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CPB339 TEACHING ABORIGINAL & TORRES STRAIT ISLANDER STUDENTS

An examination of the cultural, linguistic and social background of Aboriginal and Torres Strait Islander students and their current educational needs. Curriculum issues and classroom strategies for more effective teaching of Aboriginal and Torres Strait Islander students, together with strategies for working with parents and the community.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **CPB340 CONTEXT OF ADULT AND WORKPLACE EDUCATION**

The impact of major social, economic, cultural, environmental and technological trends on education, work, and citizenship. A range of interpretations and perspectives presented. Participants evaluate and relate these to the practical contexts of their work as adult and workplace educators.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ **CPB341 COMMUNITY, LEADERSHIP AND CITIZENSHIP**

Contemporary issues and factors impacting on communities and creating special needs for community education, leadership and organisational capacities, improved cultural awareness, and revitalised practices of active and informed citizenship.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ **CPB342 EDUCATION IN CONTEXT**

Education and change in a post-modern society; the implications for education of the complex and diverse nature of Australian society; the role of policy making in meeting the educational challenges of the 1990s.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **CPB343 UNDERSTANDING EDUCATIONAL PRACTICES**

The social, cultural, historical and political contexts of schooling; technologies, practices and strategies employed by schools; the curriculum as a contested site; the place of schooling in the modern state. Critical reflection by students is encouraged, allowing them to engage with others as co-theorists in pedagogical work.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **CPB420 CONTEMPORARY ISSUES IN EDUCATION**

The cultural and social contexts and psychological factors relevant to the processes of education and schooling in an era of change; application of the principles of social justice to the evaluation of education policy and practice, and analysis of social and personal action relevant to educational change.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB421 PHILOSOPHICAL PERSPECTIVES ON SCHOOLING**

Developments in philosophy of education which account for the micro-institutional practices of schooling, school prospectuses, timetables, school architecture, classroom work, equity issues.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB422 PHILOSOPHY IN THE CLASSROOM**

Philosophical belief systems underlying approaches to learning, knowledge and curriculum. Justice and fairness to both teachers and students in the classroom. Current developments in classroom practices.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB423 SOCIETY, SOCIAL POLICY & EDUCATION**

Education as social policy; historic, economic and political context of educational policy making; education and social justice; policy, change and practice.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB424 SOCIOLOGY OF THE SCHOOL**

An analysis of schools and classrooms within a social context; students draw implications to assist them in carrying out their teaching and administration practices more effectively.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB425 AESTHETIC EDUCATION**

An examination of aesthetics, both traditional and contemporary, and the relevance they have for understanding the role the arts plays in education; the democratisation of culture, encouraging more representative forms of cultural production; evaluation of the arts, particularly in the classroom; theory of creativity and the imagination; the deficiencies of an individualistic ethic in the arts.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB440 THE COMMUNITY & SCHOOL ADMINISTRATION**

The community context in which schools operate; examination of examples of successful community-school linkages such as school advisory councils and the development of students' capacities to manage and develop these linkages.

Courses: ED23, ED26, ED65

Prerequisites: Minimum of one year's teaching experience.

Credit Points: 12 Contact Hours: 3 per week

■ **CPB441 HISTORY OF AUSTRALIAN EDUCATION**

The growing involvement of the State in education during the nineteenth century; factors which led to the State accepting responsibility for elementary education; growth of educational bureaucracies; State involvement in secondary education; establishment of tertiary education in Australia; the influence of particular reports on Australian education.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **CPB442 EDUCATION FOR A MULTICULTURAL SOCIETY**

Over the last decade, multiculturalism has replaced assimilation as an approach to migrants. In this unit teachers are given specialist knowledge and skills to prepare students for life in a multicultural society.

Courses: ED26, ED72

Credit Points: 12 Contact Hours: 3 per week

■ **CPB443 COMPARATIVE & INTERNATIONAL EDUCATION**

Australia's identity in the international community has significant implications for education. The major international issues in education are introduced through studies of global developments and by comparing Australian education with other cultures; develops skills and knowledge appropriate for teachers of the 1990s and the next century.

Courses: ED26, ED72

Credit Points: 12 Contact Hours: 3 per week

■ **CPB444 ISSUES IN ABORIGINAL EDUCATION**

Factors influencing the position of Aborigines and Islanders in Australian society; government policies; Aboriginal culture and education; current initiatives; participation of Aborigines in policies and programs.

Courses: ED26, ED72

Credit Points: 12 Contact Hours: 3 per week

■ CPB445 CAREER & LIFE PATTERNS OF WOMEN TEACHERS

The relevance of theories of adult development and career development for understanding the personal and professional life patterns of women teachers. Emphasis on acquiring personal coping strategies. This unit is also of relevance to male teachers seeking to understand the conflicts facing female teachers.

Courses: ED23, ED26, ED72

Credit Points: 12 Contact Hours: 3 per week

■ CPB446 WOMEN, EDUCATION & SOCIAL CHANGE IN AUSTRALIA

Education and other social policy initiatives relating to women; current debates on the status of women and education's intervening role; ideology and the position of women; effects of economic and technological change; educational implications.

Courses: ED26, ED72

Credit Points: 12 Contact Hours: 3 per week

■ CPN603 CHANGING AGENDAS IN LEADERSHIP EDUCATION

The meaning of leadership in a world of change and dilemma, where, for example, corporate managerialism has to be reconciled with democratic, collaborative, gender and equity policy considerations. Contemporary differing approaches to the study of leadership are examined, including organisation theory, women and leadership, ethics and leadership, cultural analysis and critical theory.

Courses: ED13, ED11, ED73 Credit Points: 12

■ CPN604 EQUITY AND EDUCATION MANAGEMENT ISSUES AND STRATEGIES

An examination of the theory and practice of equity policies at all levels of educational management. Particular emphasis on issues of gender and educational leadership, disability, race and ethnicity.

Courses: ED13, ED11, ED73, IF64 Credit Points: 12

■ CPN605 ORGANISATIONAL CULTURES AND EDUCATION LEADERSHIP

An investigation of the dimensions of culture in educational organisations undergoing change through examining key issues that are covered with economic rationalism and social justice, strategic planning/management and leadership, cultural analysis and design and particularly, devolution and accountability.

Courses: ED13, ED11, ED73 Credit Points: 12

■ CPN606 EDUCATIONAL LEADERSHIP, POWER AND CAREERS

Issues in the changing nature of work relating to class, race and gender as determined by the power structure within society and organisations. A personal understanding of the concept of career that encourages individuals to proactively reconsider their own life stream in the discontinuous, changing world of the 1990s is the focus.

Courses: ED13, ED11, ED73 Credit Points: 12

■ CPN607 GLOBAL CHANGE, DIVERSITY AND EDUCATION

An introduction to policy approaches in education used in post-colonial nation-states, especially those in the 3rd World and in the Asian-Pacific region. It asserts that many of these nation-states are 'dependent cultures' and that education is framed by Western models. Alternative modes of education and policy in the international setting are explored.

Courses: ED13, ED11, ED71, IF64

Credit Points: 12

■ CPN608 GENDER EQUITY AND EDUCATION POLICY

Gender-equity is an important component of recent educational reform. The theories and policies underlying its adoption in educational systems and the socio-cultural contexts which has shaped its adoption.

Courses: ED13, ED11, ED71, IF64 Credit Points: 12

■ CPN609 POLICY FOR PRACTITIONERS

Policy analysis is an important component of contemporary educational practice. No change to schooling practices are contemplated when undergirded with a policy shift. Introduces students to skills of policy writing and analysis, and places these skills in the socio-economic and cultural context in which they arise.

Courses: ED13, ED11, IF64 Credit Points: 12

■ CPN610 YOUTH POLICIES AND POST-COMPULSORY EDUCATION

Post-compulsory education, a feature of recent policy formation, has brought into renewed focus the nature of youth as a category of concern. The degree to which 'youth' as a category as understood in the new post-compulsory policies (Finn, Carmichael and Mayer) is examined.

Courses: ED13, ED11, ED71, IF64 Credit Points: 12

■ CPN611 POLICIES AND PRACTICES FOR INCLUSIVE EDUCATION

The socio-cultural, organisational, curriculum and pedagogical contexts of child care and education with a focus on the ways in which special needs are socially constructed and the ways in which this is manifest in educational settings. Identification of procedures conducive to the formation, articulation and implementation of inclusive educational policies and practices in a range of educational and child care settings. Children's disruptive and challenging behaviours.

Courses: ED13, ED11 Credit Points: 12

■ CPP411 UNDERSTANDING EDUCATION IN CONTEMPORARY AUSTRALIA

The Teacher as a professional; classroom practice; school culture and organisation; national issues affecting schooling.

Courses: ED35, ED36, ED37

Credit Points: 12 Contact Hours: 3 per week

■ CPP412 UNDERSTANDING EDUCATION IN CONTEMPORARY AUSTRALIA

The teacher as a professional; classroom practice; school culture and organisation; national issues affecting schooling.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ CPP501 SOCIO-CULTURAL ISSUES IN EDUCATION

Examines socio-cultural contexts of schooling; the pastoral care and special needs industries; resistance and disruption in schools; disability and integration.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

■ CPP510 SOCIO-CULTURAL CONTEXTS OF HUMAN RELATIONSHIPS EDUCATION

Poverty, marriage and partnerships, divorce and separation; family violence; disability.

Courses: ED22, ED67

Credit Points: 12 Contact Hours: 3 per week

■ CSA259 INTRODUCTION TO COMPUTING

An overview of computing ranging from the impact of computers on society through to the details involved in

database organisation and the interrelationship between these facts. Emphasis is on demystifying computers and providing an understanding of the abilities of computers and their role in health science.

Courses: LS12, LS15, SC10, SC12

Credit Points: 8 **Contact Hours:** 2 per week

■ CSB087 PROGRAMMING LANGUAGES FOR TEACHERS

This unit includes further software development; techniques of program development; top-down design and modularity; computer programming using appropriate languages.

Course: ED50 **Prerequisite:** ISB095 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CSB155 INTRODUCTION TO COMPUTING

Examination of the computer as a processor of information and provides an overview of computers, computer organisation, systems software, programs and the range of programming languages; the design of algorithms using structured techniques and stepwise refinement; and implementation and execution of such algorithms using PASCAL.

Courses: BS50, MA34, SC30

Credit Points: 12 **Contact Hours:** 4 per week

■ CSB191 INTRODUCTION TO COMPUTING

Introduction to technical computer programming: teaching programming techniques for the writing of correct and efficient programs for limited but typical engineering problems; and using structured programming techniques to write, modify and enhance program applications on selected computer systems using the PASCAL programming language.

Courses: CE42, EE43, EE44, IF53, ME45, ME46

Co-requisites: MAB193, CEB184

Credit Points: 4 **Contact Hours:** 2 per week

■ CSB192 INTRODUCTION TO COMPUTING

Introduction to technical computer programming: teaching programming techniques for the writing of correct and efficient programs for limited but typical engineering problems; using structured programming techniques to write, modify and enhance program applications on selected computer systems using the PASCAL programming language.

Courses: CE42, EE43, EE44, IF56, ME45, ME46

Co-requisites: MAB193, CEB184

Credit Points: 8 **Contact Hours:** 3 per week

■ CSB263 COMPUTING

An introduction to computer programming and covers simple applications in the BASIC language. Topics include: computer utilisation; organisation; hardware; software; data organisation; information storage retrieval; computer systems; programming in BASIC; problem solving; analysis of numerical and non-numerical problems; introduction to FORTRAN; use of WordPerfect, VPPlanner and dBaseIII Plus.

Courses: CH32, SC10, SC30

Credit Points: 12 **Contact Hours:** 4 per week

■ CSB491 UNIX & C

Examination of the Unix operating system and its use as an engineering work station operating system; use of the editor; the C language: expressions, statements, input/output, functions, arrays and pointers and the use of storage classes, string functions and data forms; and engineering problems using C.

Course: IF56, ME46

Credit Points: 4 **Contact Hours:** 2 per week

■ CSB860 COMPUTER SYSTEMS FOR TEACHERS

Examination of single and multi-user operating systems;

interaction with computer systems and management of stored information; definition and implementation of algorithms in suitable language; selection of computable representation for real world concepts and application in computer programs; hierarchy of levels of abstraction; adoption of abstracted views of real world information processing or problem-solving situations; capabilities and limitations of conventional, sequential processing machine architectures.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ CSB980 PROJECT

Students in IF23, either individually or in small groups, undertake a substantial project relevant to the needs of industry and designed to provide insight into industrial requirements. Each project is carried out under the supervision of a staff member whose interests lie in the field of the project. Before work commences on the project, the student(s) and supervisor must agree on the topic and the scope of the work to be attempted.

Course: IF23

Co-requisites: This unit must be taken in the final year of the course.

Credit Points: 30

■ CUB330 EDUCATION LAW AND THE BEGINNING TEACHER

Legal literacy; sources of education law; students and rights; students law and schools; parents law and education; teachers rights and obligations; teachers and school-based accidents; educational malpractice.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB331 MAINSTREAM INTEGRATION OF CHILDREN WITH DISABILITIES

Historical and philosophical analysis of the evolution of education and education policy related to children with special needs and disabilities. Individuals exhibiting learning problems: identification, diagnosis, profiling and program development. Curriculum issues related to integration: communication; classroom management; use of resources; Individual Educational Programs (IEP); team teaching; networking; curriculum design and modification; the multifaceted role of a consultant/adviser in school.

Courses: ED50, ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB332 ADULT EDUCATION IN THE WORKPLACE AND COMMUNITY

The nature of all common forms of adult education, with particular emphasis on workplace and community settings; analyses key concepts and views of leading adult educators, and relates them to current attempts in Australia to provide effective forms of post compulsory education and training.

Course: ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB333 FIELD EXPERIENCE 1

Synthesises knowledge of research, needs analysis, and current issues to facilitate a self-directed learning contract aimed at preparing a case study of the placement site. Elements include typology, programs, key personnel, management, legal aspects. The prior learning goals of participants are examined and redefined in light of their practical experiences.

Course: ED54

Credit Points: 12 **Contact Hours:** 10/20 day placement; pre- and post-tutorials

■ CUB334 FIELD EXPERIENCE 2

Through appropriate resourcing, participants are pre-

pared for achieving mutually agreed learning goals related to facilitating modules of existing courses. Log entries include reflections of experiences gained in matching strategies with learning styles and program outcomes. Evaluations of relevant aspects are also entered.

Course: ED54 **Prerequisites:** CUB333

Credit Points: 12

Contact Hours: 20 day placement; pre- and post-tutorial

■ CUB335 FIELD EXPERIENCE 3

Extends the resourcing of participants' contracted learning goals. These aim at an advanced level of competence in: planning, facilitating, managing and assessing a complete program; a situational analysis of the new placement site; self and program evaluation. Preparations occur for the internship project in Year4, Semester 2.

Course: ED54 **Prerequisites:** CUB334

Credit Points: 12

Contact Hours: 20 day placement; pre- and post tutorials

■ CUB336 FIELD EXPERIENCE 4

Brings together the university, the world of work and/or communities, and the totality of the course within the framework of the National Training Reform Agenda. Participants are offered an internship program that has relevance to their career development and future employment. This involves solving a real problem in a functioning organisation. Participants prepare the contract; describe their position; identify steps in conducting the project; provide criteria for quality control and for their assessment.

Course: ED54 **Prerequisites:** CUB335

Credit Points: 12

Contact Hours: 20 day placement; pre- and post-tutorials

■ CUB337 ORIENTATION TO ADULT AND WORKPLACE PROGRAMS

Basic concepts in curriculum and curriculum processes for contemporary adult, workplace and community education. The nature of programs; investigating needs, competencies and outcomes; planning learning opportunities; participant assessment and program evaluation.

Course: ED54 **Prerequisites:** CUB335

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB338 THE GROUP IN ADULT AND WORKPLACE EDUCATION

Introduction to the theory relating to groups and explores processes which occur in adult groups. Participants deal with practical applications for educational settings, with special emphasis on developing facilitating skills.

Course: ED54 **Prerequisites:** CUB337

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB339 INSTRUCTIONAL STRATEGIES FOR ADULT AND WORKPLACE EDUCATORS

Exploration of theories and practices related to effective instructional strategies in diverse settings; introduction to skills and concepts required by competent practitioners in formal and non-formal teaching and learning settings within workplaces and communities.

Course: ED54 **Prerequisites:** CUB337

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB340 PROGRAMMING IN ADULT AND WORKPLACE EDUCATION

Important aspects of responsive programming for adult and workplace education. Covers the planning, imple-

mentation, evaluation and reflection components of program development, design and delivery.

Course: ED54 **Prerequisites:** CUB339

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB342 LAW IN THE ADULT AND WORKPLACE ENVIRONMENT

Recent legal and legislative developments mean that employers and employees require greater awareness of their legal responsibilities in all workplace environments. This unit provides a level of legal literacy appropriate to sound legal risk management in workplace settings.

Course: ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB343 OPEN LEARNING AND FLEXIBLE DELIVERY

Deals with the concepts and research relating to 'open' and 'distance' learning as well as 'flexible' and 'workplace' delivery using a range of communications and information technologies. Experience in the use of the technology and educational design, strategies and techniques is developed.

Course: ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ CUB350 EARLY CHILDHOOD PRACTICES 1

Within the focus of the teacher and children learning together, the following topics are introduced: the planning cycle; why observe? what/when/how?; techniques of recording observable behaviour with specific emphasis on language and thinking; creating positive language environments; play as a means of learning; basic skills for teachers.

Course: ED52

Credit Points: 12 **Contact Hours:** 2.5 per week

■ CUB351 EARLY CHILDHOOD PRACTICES 2

Continuing the interactive focus there will be further development of Year 2, Semester 1 topics in order to deepen understanding and extend teaching strategies.

Course: ED52

Credit Points: 12 **Contact Hours:** 2.5 per week

■ CUB352 EARLY CHILDHOOD PRACTICES 3

Within the focus of teacher/child decision making, emphasis is placed on: observing social interactions and children's making of meaning; teaching strategies relating to conflict management and discipline; the monitoring of children's progress; the creation of positive learning environments.

Course: ED52

Credit Points: 12 **Contact Hours:** 2.5 per week

■ CUB353 EARLY CHILDHOOD PRACTICES 4

Further analysis of the complexities of interactions within learning environments, particularly relating to: maths/science; the arts; teaching strategies for the appropriate use of technology within the educational setting; the integrating role of play.

Course: ED52

Credit Points: 12 **Contact Hours:** 2.5 per week

■ CUB354 EARLY CHILDHOOD PRACTICES 5

Within the focus of negotiation, teacher-child-parent-community, this unit reviews and analyses a variety of teaching approaches in early childhood, extending strategies for supporting children's play with a particular emphasis on literature and the arts; recognising

emerging professionalism; research skills and independent adult learning.

Course: ED52

Prerequisite: CUB353

Credit Points: 12 Contact Hours: 2.5 per week

■ CUB355 EARLY CHILDHOOD PRACTICES 6

Synthesis of knowledge gained to date in terms of developing a personal teaching style and philosophy; ethical responsibility; the roles of the teacher as reflective practitioner, action researcher, advocate, administrator and leader; preparing for a teaching career and examining career paths in early childhood.

Course: ED52

Prerequisite: CUB354

Credit Points: 12 Contact Hours: 2.5 per week

■ CUB356 PROFESSIONAL PRACTICE 1

The school experience program of 25 days provides students with opportunities to continue their observations of educational settings and to apply their professional and discipline studies to the planning, resourcing, teaching and evaluation of a series of related lessons. While observations focus on the development and implementation of school wide curriculum, in the teaching of lessons emphasis is given to formulation of objectives, communication skills, motivation and management of learners, and self evaluation. Students develop their skills in personal and professional relationships within the school community.

Course: ED50

Prerequisite: EDB323

Credit Points: 12

■ CUB357 PROFESSIONAL PRACTICE 2

This program consists of a 25 day block session with pre-placement on-campus tutorials. It concentrates on the development of those skills needed in teaching effectively units of work that are planned by cooperating teachers. It challenges students to cater for the learning styles of their pupils by incorporating a rich variety of teaching strategies and classroom organisational skills. Students are expected, through analysis and reflection, to promote praxis between their university studies, their teaching and other school experiences.

Course: ED50

Prerequisites: Curriculum Studies X/Y, CUB356

Credit Points: 12

■ CUB358 PROFESSIONAL PRACTICE 3

This program of 20 days (ED54)/ 25 days (ED50) aims at extending confidence and competence in teacher roles to a level commensurate with that of a beginning teacher. Preservice teachers assume full responsibility for implementing units of work. They draw upon their teaming and other professional skills in fulfilling teachers' day to day responsibilities. Emphasis is placed upon self-evaluation and critical reflection.

Courses: ED50, ED54

Prerequisites: CUB357 (ED50), CUB356 (ED42)

Co-requisites: Curriculum Studies X/Y (ED50)

Credit Points: 12

■ CUB359 PROFESSIONAL PRACTICE 4: THE BEGINNING TEACHER

This unit is structured so that integration is achieved across all strands of the course in preparation for the students' transition from 'tertiary student' to 'beginning teacher', and the career development processes which this entails. Students are encouraged to conceptualise their final practice teaching experience as a trial at beginning teaching, with opportunities to collect primary data (eg interviews, reports) and the progressive application of selected educational frameworks, derived from the theory and research on beginning teaching.

Course: ED50

Prerequisite: CUB357

Co-requisite: CUB358

Credit Points: 12

■ CUB360 TEACHERS AS COMMUNICATORS & PROFESSIONAL PRACTICE 1

This unit is concerned with communication at various levels and in a range of contexts. Its focus is directed towards individuals and groups of learners in the primary school. The unit is operated in a 1 hour/week class on campus and 15 single days (1 introduction and 1 day/week) in schools.

Course: ED51

Prerequisite: CUB365

Credit Points: 12

Contact Hours: 1 hour per week and 1 day per week in Schools plus 1 day of initial

■ CUB361 TEACHERS AS MANAGERS & PROFESSIONAL PRACTICE 2

The management of planning; implementation and evaluation in the classroom; the relationship of management and classroom climate and control.

Course: ED51

Prerequisite: CUB360

Credit Points: 12

Contact Hours: 1 hour per week and 1 day per week in schools plus 1 day of initial

■ CUB362 TEACHERS AS CURRICULUM DECISION MAKERS & PROFESSIONAL PRACTICE 3

Examination of aspects of curriculum decision making to acquire the knowledge, skills and processes necessary for short term and long range planning. Curriculum development, curriculum implementation, and curriculum evaluations are investigated to refine daily, weekly and term programs. State and Federal initiatives in curriculum are assessed so that classroom teachers can confidently interpret curricula for the needs and capabilities of diverse groups of learners. The block practice component of the unit provides opportunities to design, test and refine personal decision-making models, approaches, strategies and programs.

Course: ED51

Prerequisite: CUB361

Credit Points: 12

Contact Hours: 1 per week and 3 week block

■ CUB363 TEACHERS AS RESPONSIVE PRACTITIONERS & PROFESSIONAL PRACTICE 4

This unit is concerned with responding effectively to the many and varied teaching/learning contexts within today's classrooms and schools. Its focus is directed from traditional/open classroom to the wider communities encompassing state/private, rural/distance and aboriginal/migrant education.

Course: ED51

Prerequisite: CUB362

Credit Points: 12

Contact Hours: 1 hour per week and 3 week block in schools following Easter vacation.

■ CUB364 TEACHERS AS REFLECTIVE PRACTITIONERS & PROFESSIONAL PRACTICE 5

Prior to graduation, students need to synthesise the range of skills, attitudes and knowledge sources that they have experienced through the course, to ensure an effective transition into professional practice. This unit attempts to pursue this goal through further developing teachers as reflective practitioners, taking responsibility for the shaping of educational practice from their own perspective.

Course: ED51

Prerequisite: CUB363

Credit Points: 12

Contact Hours: 1 hour per week and 3 week block in schools following September vacation.

■ CUB365 INTRODUCTION TO PROFESSIONAL PRACTICE IN EDUCATION

The nature of teaching, and the role of teachers are studied using curriculum decision-making and critically reflective frameworks. Teaching is viewed as a complex personal and social process which is highly interactive, while the role of the teacher is elaborated with reference to the concepts of the teacher as observer, communicator and facilitator of learning.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CUB366 LEARNING/TEACHING ENVIRONMENTS

The environmental context for learning/teaching; the range of learning environments in education; how people interact in different learning environments; the design of learning experiences for people in non-formal learning contexts.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CUB367 MANAGING LEARNERS

Reviews and extends knowledge about managing learners to meet their needs in purposive and responsive learning environments. A reflective and research oriented evaluation of topics is encouraged, including managerial, environmental and educational conceptions of developing positive relations, teaching for motivation, and contemporary models, structures and frameworks for decision-making, relating to cooperative learning environments.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ CUB410 TEACHERS & THE CURRICULUM

Development of concepts and strategies essential to the processes of school-based curriculum development and the design; implementation and evaluation of relevant school programs; the significance of curriculum in the broader sense to a spectrum of individual professional teaching perspectives.

Courses: ED26, ED63

Credit Points: 12 Contact Hours: 3 per week

■ CUB413 CURRICULUM, MAKING IT HAPPEN AT SCHOOL

Implementing curriculum programs in specific school settings; indepth study of the literature and reflection on practice and experience; the practical application of specific approaches and strategies for effective curriculum implementation.

Courses: ED26, ED63

Credit Points: 12 Contact Hours: 3 per week

■ CUB414 ADULT EDUCATION

The design and implementation of educational programs for adults; theories relating to adults as educational participants; the educational process and the environment in which it takes place; emphasis on the provision of effective adult education.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ CUB431 CLASSROOM MANAGEMENT: MODELS & PRACTICE

Practical and research-based approaches to classroom management and discipline for teachers. Includes techniques that motivate pupils in daily teaching, rule development, teaching for responsibility, dealing with parents and communication and settings for on-task behaviour and meeting student needs.

Courses: ED26, ED64

Credit Points: 12 Contact Hours: 3 per week

■ CUB432 TEACHERS & ISOLATED LEARNERS

The isolated community; the isolated learner; consideration of various types of teaching situations in rural schools, especially small schools and distance education; teaching strategies; support services.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ CUB433 TEACHING STRATEGIES

Evaluation of the student's teaching strategies; the literature on teaching strategies; critical evaluation of strategies/models of teaching available.

Courses: ED26, ED64

Credit Points: 12 Contact Hours: 3 per week

■ CUB435 FACILITATING PROFESSIONAL DEVELOPMENT & INSTITUTIONAL CHANGE

Professional development as a central factor in the facilitation of institutional change; authentic case studies used to examine collaborative supervision and facilitative leadership within the context of change with the goal of developing quality institutions.

Courses: ED26, ED64

Credit Points: 12 Contact Hours: 3 per week

■ CUB436 ANALYSING EDUCATIONAL PRACTICE

The concepts and skills to analyse educational practice; analytical frameworks drawn from evaluation and comparative education; optional overseas field study.

Courses: ED26, ED63

Credit Points: 12 Contact Hours: 3 per week

■ CUB442 INTRODUCTION TO EDUCATIONAL ADMINISTRATION

Introduction to educational administration with particular reference to the theory and practice of work roles, motivation, leadership, decision making, change, conflict, needs assessment and presentation of written reports for various educational settings.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ CUB443 CLASSROOM ASSESSMENT PRACTICES

Examination of the nature and purposes of classroom assessment; analysis of main approaches to assessing student progress; developments in assessment practices in Queensland with particular reference to the ROSBA and Viviani reports; improving teacher-made tests; advantages and disadvantages of a wide range of test instruments used in classrooms.

Courses: ED26, ED64

Credit Points: 12 Contact Hours: 3 per week

■ CUB444 EDUCATORS & THE LAW

Legal literacy; sources of education law; students and rights; students' law and schools; parents' law and education; educators rights and obligations; educators and school-based accidents; educational malpractice; educational administration and law.

Courses: ED23, ED26, ED63

Credit Points: 12 Contact Hours: 3 per week

■ CUN601 CURRICULUM INVESTIGATIONS

The ways in which questions about curriculum are analysed in various contexts; trends in research methodologies specific to the field of curriculum are reviewed; issues raised in the curriculum research literature; the impact on curriculum of approaches such as action research and teacher as researcher.

Courses: ED13, ED11

Credit Points: 12

■ CUN602 PROFESSIONAL DEVELOPMENT

Designed for individual educators as they seek to be both proactive and responsive to the challenge of curriculum change, this unit cultivates their uniqueness and virtuosity, is guided by the individual's judgment, and leads to increased personal understanding and awareness. It thereby informs and supports professional action at a higher level and in a more integrated way.

Courses: ED13, ED11 Credit Points: 12

■ CUN603 EMPOWERMENT FOR CURRICULUM CHANGE

The process of curriculum decision-making and change from the perspectives of "Who benefits from the change?" and "Whose values are involved?" Theories of educational change and conceptions of the leadership role as they relate to curriculum change provide a theoretical framework for considering issues related to power and empowerment at the macro and micro level.

Courses: ED13, ED11 Credit Points: 12

■ CUN604 COLLABORATIVE SUPERVISION IN CURRICULUM PRACTICE

The collaborative approaches to supervision. Supervision is defined; models of supervision are critically evaluated; and collaborative approaches are studied in depth and applied to teaching/learning environments in a variety of professional contexts.

Courses: ED13, ED11 Credit Points: 12

■ CUN605 ADULT AND WORKPLACE EDUCATION: PRINCIPLES AND PRACTICES

The ethical basis, the contextual basis and the expert knowledge of adult and workplace education are explored through the themes of conceptualisation, teaching adults, change, flexible delivery, assessment and legal risk management. This will provide an extensive basis for further work, including research, in the area.

Courses: ED13, ED11 Credit Points: 12

■ CUP405 TEACHING STUDIES

Strategies for expository teaching and enquiry based learning; generic teaching skills; interactive classroom; basic language and text processing strategies; organisation of the learning environment; lesson and activity planning routines and models.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ CUP406 TEACHING STUDIES

Strategies for expository teaching and enquiry based learning; generic teaching skills; interactive classroom; basic language and text processing strategies; organisation of the learning environment; lesson and activity planning routines and models.

Courses: ED37 (Part-Time)

Credit Points: 12 Contact Hours: 3 per week

■ CUP420 PROFESSIONAL & CURRICULUM STUDIES 1

The theories and practices which make up the educational repertoire of a classroom teacher; development of a coherent conceptual understanding of teaching and managing learning, particularly as it applies to arts education and physical education.

Course: ED36

Credit Points: 12 Contact Hours: 3 per week

■ CUP421 PROFESSIONAL & CURRICULUM STUDIES 2

Investigation of the process of curriculum development, particularly in social environment, human relationships education, health studies, and science in primary schools.

Course: ED36

Credit Points: 12 Contact Hours: 3 per week

■ CUP501 CURRICULUM FOUNDATIONS

Examination of the personal and generic theories of curriculum practice, and the foundations for teachers and consultants to develop a framework for curriculum thinking and decision making which emerges from contemporary curriculum theory.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

■ CUP502 CURRICULUM DEVELOPMENT & INNOVATION

Application of the curriculum development process in specialist teaching areas; the process of innovation and change appropriate for particular educational settings. Frameworks and skills for evaluating existing programs and their implementation.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

■ CUP503 CURRICULUM: LEARNERS WITH SPECIAL NEEDS

Introduction to curriculum development and situational/self analysis; innovative program approaches for learners with special needs; changing ourselves and our educational environments; evaluation of curriculum development; resource teacher support for school based curriculum development, human relationships education and participation and equity; communication about improved programs.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

■ EAB103 AUSTRALIAN FAMILIES & EARLY EDUCATION

Family and community analysis, historical view, economic, political, social and cultural factors; issues affecting families in Australia today employment patterns, ideology of family, effect of technological change, inequalities and social justice; personal approaches and critical reflection.

Course: ED42

Credit Points: 8

■ EAB144 INTEGRATING THE EXCEPTIONAL CHILD IN EARLY CHILDHOOD

Foundations for least restrictive early education; philosophical and policy issues; integrating early intervention; nature of exceptionalities; methods for meeting special needs; team work with support personnel; evaluation of individualised programs and teaching strategies; management of behaviour; family dynamics and parental needs.

Courses: ED42, NS48

Credit Points: 8

■ EAB300 EARLY CHILDHOOD ARTS 1

Introductory principles, practices, philosophies and theories in the visual and performing arts as they relate to young children in various contexts: the arts as a way of knowing and expressing; creativity versus artistry; an overview of artistic development from birth to adolescence; the arts, culture, education and the young child. A main focus will be on the elements and concepts in the areas of the visual arts, music, drama, movement and dance with specific emphasis given to the visual arts: the development of the visual arts for children under five years of age and for school aged children; assisting artistry with children under five years of age and with school aged children.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

EAB301 EARLY CHILDHOOD ARTS 2

Application of principles, practices, philosophies and theories in the areas of music, drama, movement and dance, with specific examples provided for how these arts areas provide unique opportunities for knowing and understanding. Children's development and ways in which this development may be assisted is examined in the areas of music, dance, and drama across two age categories – under five years of age and school age. The integration of the arts in relation to the unique, shared elements and concepts across the various domains, and advocacy in the arts.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB302 EARLY CHILDHOOD FOUNDATIONS 1

The biological processes which are the foundation of physical, motor and perceptual development of children from birth to eight years; prenatal factors which affect physical, and motor development; growth patterns and changes in body systems which occur in infancy and in young children; the effects of maturation on development; development of perceptual systems (visual, auditory, tactile-haptic, kinaesthetic and vestibular); sensitivity and organisation of these systems; phases and patterns in motor development and the factors affecting that development; observational methods and techniques through which physical, motor and perceptual features of development of children can be analysed.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB303 EARLY CHILDHOOD FOUNDATIONS 2

Review and analysis of current knowledge of the processes and features of language and cognitive development of children from birth to 8 years of age; language acquisition and communication; interrelationships between language and thought; the knowledge base and cognitive processes; analysis of observational data on children's behaviour in the area of language and cognition and using such analysis to plan for children's needs, interests and abilities; links with other aspects of development.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB304 EARLY CHILDHOOD FOUNDATIONS 3

Theories of social, emotional and creative development and their application; theoretical and empirical approaches to the study of creativity and self-expression from birth to eight years; the nature of creativity and its relationship to other areas of development; children's recognition and production of emotions; processes involved in the socialisation of emotions; sex differences and contextual influences on development; individuality, self-knowledge and the development of personal identity; socialisation in the context of relationships, in particular, those within the family, the peer context and the classroom.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB305 EARLY CHILDHOOD LANGUAGE EDUCATION 1

Theories of development and learning of language and literacy from early years through emergent literacy to fluency with the use of a variety of genres of written language; early literacy learning processes, and the teaching practices, strategies and resources to support these in preschools and primary schools; working with

parents to enhance literacy learning in home, child care, kindergarten and other settings; planning based on observations in order to assist children in educational contexts.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB306 EARLY CHILDHOOD LANGUAGE EDUCATION 2

Review of previous experiences in literacy education from practice and the earlier unit; observation and assessment of the literacy learning abilities of a child as a basis for the development of a profile for planning; reporting to parents; development of frameworks for and planning of integrated language and literacy education programs appropriate to a range of children and a variety of educational contexts; modification of programs for children with special needs; study of issues in literacy and literacy education in early childhood contexts for children from birth to eight years of age.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB307 EARLY CHILDHOOD MATHEMATICS EDUCATION

Approaches to the teaching and learning of mathematical concepts are reviewed with a focus on the development of the child; the sequence of development from early mathematical understandings to the application of number within a problem-solving framework; applications of technology.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB308 EARLY CHILDHOOD SCIENCES, MATHEMATICS & TECHNOLOGY

Overview of early childhood science, social studies and maths topics, concepts and processes; investigation of appropriate monitoring strategies; use of a variety of technologies; ways in which early childhood environments can be organised to support integrated, active, inquiry learning, with relevant resources from the immediate classroom, the outdoors, families and the local neighbourhood.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB309 INTEGRATED EARLY CHILDHOOD CURRICULUM 1

Investigation of distinctive curriculum practices in use in Australian early childhood settings such as preschool/ kindergarten, child care centres and the first years of primary school; ideas informing practice; curriculum principles which emphasise the importance of children, parents, community and teachers work collaboratively; play as an integrating force in children's learning; teaching and learning occurring within responsive relationships where difference is valued; the nature of teacher decision making and the knowledge bases teachers bring to their curriculum implementation work.

Course: ED52

Credit Points: 12

Contact Hours: 3 per week

EAB310 INTEGRATED EARLY CHILDHOOD CURRICULUM 2

Current practices in Australian early childhood settings, understood within philosophical and historical perspectives; examination of key ideas informing the holistic curriculum approaches of the field; theories and practices associated with play; the celebration of difference with particular attention given to practices which are responsive to the values and needs of Aboriginal and Torres Strait Islanders; personalised teaching and learning; in-depth study of the knowledge base of the early

childhood teacher practitioner; critical analysis of approaches to designing curriculum for the expanding range of services for young children and families in Australia.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB311 ALTERNATIVE PROGRAMS IN EARLY CHILDHOOD

The range of community programs which support the needs of children and families outside of mainstream early childhood settings (e.g., visits to community Aboriginal and Torres Strait Islander programs). A resource file of programs will be established by students to aid in future teaching, to help refer families to appropriate services, to build up a deepened awareness of models of parent-professional communication and to suggest alternative career paths in early childhood.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB312 CASE STUDIES IN EARLY CHILDHOOD & FAMILY LITERACY

Introduction to case study methods, adult literacy and inter-generational and family literacy, including clients from English and Non-English speaking backgrounds; planning and implementing an inter-generational literacy program with a client and the young children; reporting and reflecting upon the program; contributing to ongoing research in family literacy.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB313 CHILDREN'S LITERATURE FOR EARLY CHILDHOOD SETTINGS

A study of the significance of children's literature as it furnishes literacy and language programs: origins and patterns of stories both traditional and contemporary as they reflect society; critical evaluation of books published nationally and internationally; acquisition of skills of selection for use in early childhood settings; planning appropriate long term quality-literature programs that include a wide range of genre and current issues.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB314 CHILDREN, TEACHERS & THE ENVIRONMENT

The exploration of interactions between individuals and their environments; the development of "whole school/whole centre" policies and practices in environmental education in early childhood settings; consideration of ecologically sustainable development and social justice through education about, in and for the environment; a strong focus on teachers of young children exploring their own attitudes, values and actions regarding these goals. The unique perspectives of Aboriginal and Torres Strait Islanders with regard to environmental issues will be examined.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB315 CREATING CURRICULUM WITH YOUNG CHILDREN

Students examine dilemmas arising when teachers plan to negotiate the curriculum with children and parents in child care, preschool/kindergarten and primary school settings. Critical analysis of strategies teachers use to create 'spaces' where children are able to construct knowledge in personally relevant ways.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB316 EARLY CHILDHOOD ART EDUCATION

Historical and contemporary trends in art education; philosophy and practice in early childhood visual arts education; in-depth exploration of young children's artistic development and learning; assessment and evaluation of visual arts in early childhood; curating children's art exhibitions; public information about children's artistry; advocacy for improving options for young children in the visual arts.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB317 EARLY CHILDHOOD DRAMA IN EDUCATION

The development of skills and understandings of drama in education; in-depth exploration of techniques and strategies to enhance young children's dramatic ways of knowing and learning; assessment and planning for drama across the early childhood curriculum.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB318 EARLY CHILDHOOD EDUCATION & FAMILY ISSUES IN AUSTRALIA

Contemporary issues facing families such as changing employment patterns, changing family forms, ethnic and cultural diversity and new technologies; indepth analysis of contemporary issues as they impact on families and on early childhood education; strategies for responding to families and the key issues they face in the context of early childhood education.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB319 EARLY CHILDHOOD SOCIO-CULTURAL CONTEXTS

Opportunity to investigate a broad range of issues currently affecting early childhood educators and their clients, with in-depth study of an issue selected from this broad range. Issues include work based child care and the effect on children, families and teachers; vacation care programs and before and after school programs and what this means for primary school children and teachers; early childhood educators as agents of social change; policy decisions made at state and federal levels which affect early childhood education; how changing patterns of work/employment have affected early childhood education; the low status of caregivers in society who are entrusted with children, 'our investment for the future'; the debate about whether child care is a tool for the liberation of women or the repression of other women; children, poverty and early childhood services; children, ethnicity and early childhood services.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB320 EARLY CHILDHOOD TRANSACTIONS 1

Analysis of interpersonal communications in terms of the students' own socio-cultural context; basic theories, definitions, principles and models of interpersonal communication related to the role of the early childhood educator; interacting empathically and assertively with children, their families, other professionals, and the wider community; awareness of the range of communication skills; accepting the responsibility to lead, delegate and negotiate with individuals and groups; understanding contemporary Australian families, ethical considerations and social justice issues in early childhood education.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB321 EARLY CHILDHOOD TRANSACTIONS 2

Insights into Australian families and interpersonal processes extended from EAB320; diversity and commonality in family childrearing values and practices; the parental role in young children's development; dimensions of parenting behaviour; family-teacher roles; interpersonal skills in practical contexts with families: effective collaborative procedures and skills of listening, giving and receiving feedback, assertion, negotiation and group leadership.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB322 ETHICAL RESPONSIBILITIES IN EARLY CHILDHOOD

In-depth examination of legal and ethical responsibilities or early childhood educators; historical overview of changing trends in legislation relating to children; current issues in children's rights, including welfare, human rights, child care; professional ethics and the responsibility of the early childhood educator to children, parents, the community, society, colleagues and the profession; advocacy for improved opportunities for young children; case studies of Australian issues in advocacy, ethics and the law.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB323 EVERYDAY FOOD & SCIENCE FOR YOUNG CHILDREN

An overview of science topics, concepts and processes as experienced in everyday life, in the home and various early childhood educational settings; exploration of a food cycle approach to learning, with consideration of space, time, resources and teaching strategies; current early childhood policies and practices which affect the needs of children from birth to age eight years; staff health in relation to early childhood program delivery.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB324 INTEGRATING YOUNG CHILDREN WITH DISABILITIES INTO EARLY CHILDHOOD PROGRAMS

The integrated approach to teaching children with disabilities through an effective and cooperative team approach of teachers, families and support personnel; philosophical and policy issues for the least restrictive early education for young children with disabilities; the range and nature of disabilities early childhood teachers may encounter in their practice; development, implementation and evaluation of individualised programs; teaching strategies for integration into regular programs; needs and concerns of families; the range of support services available to families and teachers.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB325 MANAGEMENT OF EARLY CHILDHOOD SERVICES

General management theory and practice; organisational and leadership styles; management of various early childhood services; setting policies and planning for services; implementing day to day tasks and operations; managing and working with people; considering ethical issues and conduct; working outside early childhood services.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB326 MUSIC EDUCATION & YOUNG CHILDREN

In depth exploration of musical elements in relation to concept development in young children; application of

specific techniques for guiding children's understanding, such as solfege, ostinato with Orff-type instruments, and listening with a musical focus; extension of personal musicianship and creativity; integration of music with other areas.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB327 PRACTICAL CHILD CARE ISSUES

The practical day to day aspects of designing, communicating, implementing and evaluating developmentally appropriate programs for children from birth to eight years. It will focus on B-3 and 5-8 year old care programs.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB328 RESEARCH IN EARLY CHILDHOOD DEVELOPMENT

Research design, methodology and analysis as applied to the study of young children's development. This elective is recommended for students considering enrolment in postgraduate research courses in Early Childhood. Longitudinal, cross-sectional and cross-sequential designs; experimental, quasi-experimental, and naturalistic designs; hypothesis generation; ethical issues in conducting research with young children; measurement and sampling; introduction to descriptive and inferential statistics; report writing and organisation.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB329 ROUTINES FOR INCLUSIVE EARLY CHILDHOOD CURRICULUM

The routines for daily living in kindergartens, preschools, child care centres and primary schools; the creation of routines which will foster inclusivity of difference based on race, gender, social class and intellectual capabilities; particular attention is given to contexts which are inclusive of Aboriginal and Torres Strait Islander values and beliefs. Investigations of practices currently in use in early childhood settings will form the basis for critical analysis of possibilities for improving practice.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB330 STORYTELLING IN EARLY CHILDHOOD

The identification and exploration of the craft of the storyteller. In particular it will focus on a range of storytelling techniques, identification of suitable stories that can be told; cultural influences on storytelling and storytelling across the curriculum.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB331 TECHNOLOGY & THE YOUNG CHILD

The use of computers, calculators and other examples of technology in the learning of young children; links between technology and problem-solving, applications of number concepts and the use of computers in language development and the publication of documents.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ EAB332 TECHNOLOGY IN EARLY CHILDHOOD CONTEXTS

Students undertake an investigation which incorporates the use of technology with young children. This investigation would be designed, carried out and reported on as in a small scale research project or an independent study.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

■ **EAB410 EARLY EDUCATION: DECIDING THE CURRICULUM**

Examination of the curriculum decision-making processes promoted and in use among teachers working in early childhood settings such as kindergartens, child care and schools. Students have an opportunity to reflect on, and seek to improve, personal ability to decide the curriculum for young learners.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **EAB411 EARLY EDUCATION: LITERACY**

A study of current understandings about the nature of literacy, literacy development in early childhood and the ways in which this development can be fostered both within the home and at a range of educational and care settings. The broad topic areas addressed comprise language foundations, processes and patterns of development, the classroom context and program development. Students are expected to build on their preservice studies in the area of language and literacy development and learning.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **EAB440 WORKING WITH PARENTS & THE COMMUNITY**

Parental roles in childhood; review of research on child rearing; the use of interpersonal skills in relating to parents; planning for parent involvement; parent involvement approaches; resources for parents; meeting the needs of parents and programs; future trends.

Courses: ED23, ED26

Credit Points: 12 Contact Hours: 3 per week

■ **EAB441 EARLY EDUCATION DEVELOPMENT & LEARNING**

Ecological orientation of child development; forces shaping the development of children from birth to eight years of age; the psychosocial and cultural perspectives of development and learning in the early childhood years; ecological analysis of early childhood settings impacting on development.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **EAB501 ADVANCED CHILD CARE DEVELOPMENT & LEARNING**

Theoretical perspectives on development and learning of children 0-12 years; investigation of aspects of development, developmental sequences and patterns; factors influencing development and learning; observation measurement and research methods in development and learning.

Course: ED42

Credit Points: 16

■ **EAB502 ADVANCED CURRICULUM THEORY & DESIGN FOR CHILD CARE**

Frameworks for curriculum decision making; establishing curriculum policies and evaluation strategies; characteristics of learning environments which foster communicative competence, creativity and problem solving; levels of decision making, federal and state governments, employing authorities, particular child care and education services.

Course: ED42

Credit Points: 16

■ **EAB503 TEACHING STRATEGIES FOR CHILD CARE**

The planning-implementing-evaluating cycle; managing learning environments; the teaching/caring role; facilitating children's development and learning through the human environment; dimensions of curriculum decision-making; adult/adult and adult/child interactions; teacher as a professional.

Course: ED42

Credit Points: 16

■ **EAB504 PROGRAMS & TEACHING STRATEGIES FOR CHILDREN UNDER THREE YEARS**

Facilitating children's development and learning through the physical environment; mathematics and science concepts in the learning environment; physical care, education and nutrition for infants and toddlers; creating a safe, stimulating and supportive environment for learning; day care programs for infants and toddlers in Australia and overseas; parent-infant programs; policies and trends.

Course: ED42

Credit Points: 16

■ **EAB505 LEARNING TEACHING & INTEGRATED CURRICULUM FOR 3-5 YEARS**

Language and cognitive development; communication with children; early mathematics and science concepts; total program planning implementation and evaluation; integration across content areas involving parents and community.

Course: ED42

Credit Points: 16

■ **EAB506 FIELD PROJECT (CHILDREN 0-5 YEARS)**

Observations, analysis and implementation of the teaching and management program; teaching file of recorded observations, summaries, records, organisation strategies and evaluated plans; provision of a safe, caring and challenging learning environment; competency in leadership and responsibility.

Course: ED42

Credit Points: 16

■ **EAB507 EARLY CHILDHOOD LEADERSHIP & MANAGEMENT IN THE SOCIO-CULTURAL CONTEXT**

Administration of early childhood services; leadership styles; managing people; professional issues; selection of personnel; outcomes for children and families; management theory and practice; program administration; financial matters; features of comprehensive programs, planning and communication.

Course: ED42

Credit Points: 16

■ **EAB508 FIELD PROJECT (CHILDREN 0-12 YEARS)**

A significant social, political or curriculum issue affecting the delivery of a child care and education service; teaching file of recorded observations, summaries, relevant centre records, management and teaching strategies, community resources, parent and staff communications, evaluated plans; competence in providing a safe caring learning environment which reflects the cultural and social backgrounds of the children; competence in leadership and responsibility for the total program for a period of time.

Course: ED42

Credit Points: 16

■ **EAN601 EARLY CHILDHOOD TEACHERS' KNOWLEDGE IN ACTION**

Critical reflection on knowledge in action as teachers work in early childhood programs; history of the development of key ideas influencing early childhood curriculum and teaching; methods for studying teachers at work in different early childhood programs; analysis of research which examines issues related to teaching in early childhood programs.

Courses: ED13, ED11

Credit Points: 12

■ **EAN602 EARLY CHILDHOOD SERVICES AND POLICIES**

Examination is made of the processes of policy development and sources of influence on policies in the area of early childhood services. Critical analyses are undertaken of selected early childhood policies.

Courses: ED13, ED11

Credit Points: 12

■ EAN603 DEVELOPMENT IN EARLY CHILDHOOD CONTEXTS

Development of skills for critical evaluation of current developmental issues in early childhood within an ecological framework; knowledge of a broad range of developmental and methodological issues of research in early childhood including infant development, family, educational and care contexts; the processes and patterns of symbolic development in young children; critical discussion of developmental research and the implications of this knowledge for early childhood education. Courses: ED13, ED11 Credit Points: 12

■ EAN604 YOUNG CHILDREN, FAMILIES AND COMMUNITY

Aspects of family diversity; the interactions between young children, families and the wider social and cultural community; key issues facing families within community contexts; the analysis of transactions involving professionals, young children, families and community. Courses: ED13, ED11 Credit Points: 12

■ EAN605 EDUCATION MANAGEMENT PROCESSES AND STRATEGIES

The management processes in educational and other professional settings; the identification of various leadership skills and effective communication styles. The understanding and facilitation of change is explored. Consulting, advocacy and empowerment strategies are identified in terms of the students' particular work sites. Courses: ED13, ED11 Credit Points: 12

■ EAN606 MANAGING EDUCATION PERSONNEL

Human resource management; staff selection, staff supervision and appraisal, staff development and the importance of developing evaluation and facilitation skills. Strategies for including professional development in a range of educational and professional settings are explored. Courses: ED13, ED11 Credit Points: 12

■ EAN607 CONSULTATION AND TEAMWORK

Analysis of typical professional consultancy and teamwork contexts within education and early childhood services, including contributions from other disciplines (eg. medicine, psychology, therapies, social welfare, law) and agencies (eg. health, community services, police); theoretical and practical understanding of intra- and interpersonal qualities which affect consultancy and teamwork; theory and application of group development processes related to effective task accomplishment. Factors impinging on the quality of interdisciplinary and interagency teamwork; strategies for reviewing and improving consultation and teamwork. Courses: ED13, ED11 Credit Points: 12

■ EAP411 CREATIVITY & LANGUAGE 1

Developmental processes in the expressive and language arts; principles of learning; the development of personal identity in young children; creative and expressive processes for language and literacy in early childhood programs. Course: ED35

Credit Points: 12 Contact Hours: 4 per week

■ EAP412 THINKING & PROBLEM SOLVING 1

The processes of interest in active learning, inquiry and problem solving; environments and strategies which promote the development of active learning and inquiry by young children; monitoring progress. Course: ED35

Credit Points: 12 Contact Hours: 4 per week

■ EAP413 PROGRAM PLANNING & TEACHING STRATEGIES 1

Development of those areas of knowledge and skills essential to the practical decision making of early childhood teachers. An off-campus component of this unit includes two practicums each of twelve days in two early childhood settings (child care, preschool, kindergarten or early primary).

Contact Hours: 3 per week

■ EAP416 CREATIVITY & LANGUAGE 2

Discipline-based processes; the interrelated and unique contribution of each of the arts; the teacher's role as a curriculum decision maker in the development of language and literacy programs. Course: ED35

Contact Hours: 4 per week

■ EAP417 THINKING & PROBLEM SOLVING 2

The child as explorer, problem solver and meaning maker; organising for active learning, inquiry and problem solving; linking home and early childhood educational environments. Course: ED35

Contact Hours: 4 per week

■ EAP418 PROGRAM PLANNING & TEACHING STRATEGIES 2

The development and integration of student teachers' knowledge, skills and attitudes from the curriculum development and socio-cultural units to assist them in performing and justifying their diverse roles in teaching practice. An off-campus component of this unit includes two practicums each of sixteen days in two early childhood settings (child care, preschool, kindergarten or early primary).

Contact Hours: 3 per week

■ EAP500 EARLY CHILDHOOD LEADERSHIP & ADVOCACY

The foundations of early childhood services in Australia; the principles of leadership, empowerment plus change are considered along with advocacy for the early childhood field. Courses: ED23, ED65

Contact Hours: 3 per week

■ EAP512 POLICIES & PRACTICES IN EDUCATIONAL MANAGEMENT

Explores the nature of educational policies in Australia; analyses policies to consider social and political influences; addresses educational practices in relation to current policies at various government and organisational levels. Courses: ED23, ED65

Contact Hours: 3 per week

■ EAP513 EDUCATIONAL SERVICES MANAGEMENT

Focuses on leadership roles by identifying various leadership skills and effective communication styles; development of an understanding and facilitation of change; consulting, advocacy and empowerment strategies are identified. Courses: ED23, ED65

Contact Hours: 3 per week

■ EAP515 HUMAN RESOURCE MANAGEMENT IN EDUCATION

Staff supervision and appraisal; staff development planning, implementation and evaluation; facilitative skills. Courses: ED23, ED65

Contact Hours: 3 per week

EAP518 MANAGING THE CURRICULUM

This unit helps students understand the elements of curriculum management. The problematic nature of managing curriculum is explored by considering ideological approaches.

Course: ED23, ED26

Credit Points: 12

EAP525 EARLY CHILDHOOD PROGRAM PLANNING

Planning and evaluating early childhood programs for children 3 to 8 years; organisation and administration of programs for young children; examination of approaches to teaching; early intervention programs; inter-disciplinary teamwork and support services; strategies for working with parents and community agencies; professional behaviour and ethics.

Course: ED20

Credit Points: 12

EAP526 EARLY CHILDHOOD EDUCATION 3

Current approaches to the teaching of literacy and numeracy in the early years; diagnosis and assessment in early literacy and numeracy; the expressive arts and the sciences as modes of learning and teaching in the early years; the use of microcomputers and educational software with young children; planning and teaching for individual and group needs.

Course: ED20

Credit Points: 12

EAP528 CHANGE IN CHILDREN BIRTH TO AGE EIGHT

Techniques for observing and analysing child behaviour; major theories of development and learning; cognitive, social/emotional, language, physical development and learning in children 2-9 years.

Course: ED20

Credit Points: 12

EAP529 EARLY CHILDHOOD EDUCATION 1 & 2

The development of problem solving, explanation, investigation, self-expression, originality, divergent thinking, and risk-taking in young children in relation to communication, movement the expressive arts, mathematics, science, social studies and health curriculum; approaches and suitable materials for these curriculum areas within various early childhood settings; analysis of teaching strategies.

Course: ED20

Credit Points: 12

EAP530 THE CONTEXT OF EARLY CHILDHOOD EDUCATION

Examination of the bases and scope of education in early childhood, the role of psychological theories, curriculum models, policies and programs; case studies of early childhood programs.

Course: ED20

Credit Points: 12

EAP531 RESEARCH IN EARLY CHILDHOOD

Examination of the research literature in development and learning; research techniques in early childhood; and their application; application of research techniques to research proposals; experimental research in one aspect of development and learning of children aged 3-8 years; contributions to early childhood research from other fields.

Course: ED20

Prerequisite: EAP528

Credit Points: 12

EAP532 TRANSACTIONS IN EARLY CHILDHOOD EDUCATION

Examination of the implications of social, cultural and geographical factors for early childhood education; consideration of the effects of technology and media, and ethical and legal obligations; analysis of procedures

and techniques for case studies; formulating a personal philosophical statement.

Course: ED20

Prerequisite: EAP530

Credit Points: 12

EAP551 DANCE EDUCATION IN EARLY CHILDHOOD

The study of movement and dance in early childhood, the influence of home and culture, the awareness of space, time, energy and body performance in the movement and dance curriculum; the approaches underpinning philosophical and professional practice.

Courses: ED22, ED26

Credit Points: 12

Contact Hours: 3 per week

EAP552 FROM PLAY TO DRAMA IN EARLY CHILDHOOD EDUCATION

The developmental relationship that exists between children's play and drama in early childhood, children's language development through drama; theories/approaches and methods in drama contexts.

Courses: ED22, ED26

Credit Points: 12

Contact Hours: 3 per week

EAP553 MUSIC IN EARLY CHILDHOOD EDUCATION

Examination of the influence of home, formal learning contexts, society and culture on music education for young children; children's development and learning through music; musical elements, approaches/methods and learning contexts.

Courses: ED22, ED26

Credit Points: 12

Contact Hours: 3 per week

EAP554 THE ARTISTIC PROCESS & THE VISUAL ARTS IN EARLY CHILDHOOD EDUCATION

The value of the visual arts - for culture, and for children; education versus educated, children's development and learning through the visual arts; visual arts media and curricula, philosophical and historical underpinnings.

Courses: ED22, ED26

Credit Points: 12

Contact Hours: 3 per week

EDB254 PRACTICE TEACHING 4

During this four-week period in schools, students extend their involvement to include periods of continuous teaching. The experience widens to encompass both the school and community domains. Wider contexts eg. small schools are also considered appropriate venues for practical experience in this semester. Students also have the opportunity to implement the knowledge and skills gained in major study areas. Finally, other practical experience eg. attendance at P & C meetings is required.

Course: ED41

Prerequisite: EDB253

Credit Points: 12

EDB255 PRACTICE TEACHING 5

For the four-week period of school experience, students prepare the curriculum program. Selected parts of the program are implemented during weeks 1 & 2, and for the second half of the practice the full program is taught. Additionally, students involve themselves in other activities within the school and community domains. Finally, throughout the semester, other practical activities are undertaken.

Course: ED41

Prerequisite: EDB254

Credit Points: 12

EDB336 ABORIGINAL & TORRES STRAIT ISLANDERS, PAST & PRESENT

This introductory unit is designed to give students a basic understanding and awareness of Murri and Torres

Strait Islander cultures. Throughout the unit, students will be provided with a holistic approach to learning about the main features of both traditional and contemporary cultures. This knowledge would enhance and assist the individual's ability to develop effective relationships with the Murri and Torres Strait Islander communities.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ EDB337 ISSUES IN ABORIGINAL & TORRES STRAIT ISLANDER CULTURE

This unit continues to develop students' knowledge about Murri and Torres Strait Islander people, historically, socially and culturally in relation to these changes and gives them the opportunity to explore and investigate areas of interest.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ EDB338 MURRI & TORRES STRAIT ISLANDER STUDIES: AN INTEGRATED PERSPECTIVE

Intended for students who already have a solid grounding in Aboriginal and Torres Strait Islander history and culture and who have an understanding of the issues that concern Murri and Torres Strait Islander people today. Students have the opportunity to develop a deeper understanding of the complexities of the cultures of these two distinct groups and to examine and evaluate issues of concern relevant to their areas of interest.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ EDB440 INDEPENDENT STUDY

Self-initiated and self-directed academic study in an area of educational management interest which allows study either to a depth not possible in electives, or in an area not covered by the course; for requirements see the Independent Study Guide.

Courses: ED23, ED26, ED50, ED51, ED52, ED54, ED37

Credit Points: 12

■ EDN601 MAJOR ISSUES IN EDUCATION

Students draw on their educational experience and current educational debates to develop skills in academic analysis. That analysis is informed by selected conceptual frameworks – well-documented theoretical and critical perspectives. This unit will lead students to critical insights into their own educational practice. The teaching approach emphasises the development of advanced skills in academic reading and writing.

Courses: ED13, ED11, ED61, ED71

Credit Points: 12

■ EDN602 ADVANCED SEMINARS

This unit provides for the special needs and interests of students. Small groups of students interact at an advanced level with specialists or visiting scholars in seminars, conferences and research projects.

Courses: ED13, ED11

Credit Points: 12

■ EDN603 INDEPENDENT STUDY

This unit allows individual students to follow their own particular needs/interests and/or to take advantage of specialised lecturer expertise through working autonomously on relevant topics of interest under the supervision of individual lecturers.

Courses: ED13, ED11

Credit Points: 12

■ EDN608 PROJECT/DISSERTATION (STAGES 1 AND 2)

A minor research project that provides students with an opportunity to extend, synthesise and analyse knowl-

edge from core and elective units through, for example, a critical literature review, the development of appropriate educational resources, or a project of change in their workplace.

Courses: ED13, ED14

Prerequisites: EDN611, EDN601

Credit Points: 24

■ EDN611 UNDERSTANDING EDUCATIONAL RESEARCH

The foundation unit for studying research methods in education. It focuses on reading, understanding and evaluating educational research both within and across different paradigms used in educational research.

Courses: ED13, ED11, ED61, ED71

Credit Points: 12

■ EDN612 CONDUCTING EDUCATIONAL RESEARCH

Building on the understandings developed in EDN611, this unit focuses on developing the skills and knowledge necessary to design and conduct educational research. Structured to enable students to pursue in-depth studies in selected designs and methods with a view to producing an initial research proposal.

Courses: ED13, ED11, ED12, ED61

Prerequisites: EDN611 OR equivalent OR permission of coordinator

Credit Points: 12

■ EDN620 DISSERTATION

Designed to enable students to develop their research potential through following up a research design developed in the unit 'Advanced Research', to produce a significant piece of written research in the form of a dissertation.

Courses: ED13

Prerequisites: EDN611, EDN601, EDN602

Credit Points: 36

■ EDP508 PRACTICUM IN EARLY CHILDHOOD 1

Observation; planning, implementation and evaluation of curriculum for children in early childhood; communication with children, parents and colleagues; the demonstration of organisational and administrative skills in an early childhood setting.

Course: ED20

Credit Points: 6

■ EDP509 PRACTICUM IN EARLY CHILDHOOD 2

Observation; design, implementation and evaluation of programs for children in the early childhood age range; communication with children, parents and colleagues; increased responsibility for control and management in the early childhood setting; catering for children in the early childhood age range.

Course: ED20

Prerequisite: ED508

Credit Points: 6

■ EDP514 FIELD PROJECT

An applied action research project focussing on the development of a management-oriented program; the delivery and evaluation of the program within an existing educational service.

Courses: ED23, ED65

Credit Points: 12

Incompatible with: EDP516

■ EDP516 EXTENDED FIELD PROJECT

An applied action research project focussing on the development of a management-oriented program. The delivery and then evaluation of the program within an existing educational service occurs. The Extended Field Project includes a research report with greater breadth and depth than the 12 credit point field project.

Course: ED23

Credit Points: 24

Incompatible with: EDP514

**■ EDP601 THE REFLECTIVE
PRACTITIONER IN HIGHER EDUCATION**

Develops critical, reflective and proficient tertiary educators with a commitment to learning as a lifelong process; begins with and builds upon the various experiences which the participants bring with them.

Course: ED68

Credit Points: 12 Contact Hours: 3 per week

**■ EDP602 ADULT LEARNING & TEACHING
IN HIGHER EDUCATION**

The theory and practice of teaching adults; the appropriateness of particular approaches to the needs, interests and learning styles of adult audiences; involves the application of theoretical perspectives to the practice of teaching adults in varied higher education and contexts.

Course: ED68

Credit Points: 12 Contact Hours: 3 per week

**■ EDP603 HIGHER EDUCATION IN
AUSTRALIA: CONTEXT & ISSUES**

History of higher education in Australia; current structure and funding of higher education in Australia; major stakeholders and key institutional interfaces; professional associations, TAFE, secondary education, industry, student groups, government.

Course: ED68

Credit Points: 12 Contact Hours: 3 per week

**■ EDP604 PROGRAM DESIGN &
EVALUATION IN HIGHER EDUCATION**

Identifies and describes the major theoretical underpinning of educational planning and evaluation; trace the historical shifts within the practice of course design and evaluation; demonstrate skills in evaluation and subsequent planning for course integration; and demonstrate skills in critical analysis of evaluation designs and procedures.

Course: ED68

Credit Points: 12 Contact Hours: 3 per week

**■ EDR700 ADVANCED SEMINARS IN
INTERDISCIPLINARY STUDIES IN
EDUCATION**

Aims to broaden and deepen the student's initial perspective to include elements derived from theoretical perspectives drawn from a number of disciplines; seeks to provide a context for learning for educators who seek the personal and professional benefits that the broadening and deepening of their professional knowledge affords. Includes negotiated seminars program, interdisciplinary study of education, a reading program and presentation of colloquia involving formulation and defence of positions within the context of a community of scholars.

Course: ED11

Credit Points: 48 Contact Hours: 3 per week

**■ EDR701 ADVANCED SEMINARS IN
APPLIED EDUCATIONAL RESEARCH**

Prepares students for the presentation of a thesis and provides breadth of knowledge in the application of research within the candidate's applied focus; provides experienced educators with advanced programs of study in research methods; the application of research methods to professional practice.

Course: ED11 Prerequisites: EDN600 or equivalent
Credit Points: 48 Contact Hours: 3 per week

■ EDR702 THESIS

Provides students with an opportunity to extend and synthesise knowledge from the coursework section;

allows the coursework to be applied in a manner that reflects how it might be used in future work situations; provides a means of extending the skills and understandings gained from formal units to investigate in depth some aspects of the student's professional practice. Focuses on the extension of acquired knowledge to increase the understanding and competence of skilled professional educators; facilitates the application of innovative research but grows out of the professional coursework.

Course: ED11 Prerequisites: EDR700, EDR701

Credit Points: 144

■ EEB101 CIRCUITS & MEASUREMENTS

The concepts of voltage, current and electrical impedance, simple electrical circuits (R, L and C) and the measurement of electrical quantities using the oscilloscope, meters and bridges; AC theory, errors in measurement, traceability of measurement.

Courses: CE42, EE43, EE44, IF23, IF56, ME23, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

**■ EEB107 AERONAUTICAL INDUSTRIAL
EXPERIENCE I**

Students must engage in two weeks of approved employment in the aviation industry at the end of the first semester with a view to gaining a general background in aviation; students must submit an industrial experience record which has been completed by both the student and the employer.

Course: EE43

Contact Hours: 2 weeks

■ EEB202 ELECTROMAGNETICS

Introduction to engineering applications of current flow, electrostatic and electromagnetic fields; ideal and loosely coupled transformers – instrument and high frequency transformers; electrical power supply and safety; rotating electrical machines.

Courses: EE43, EE44, IF23, IF53, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

■ EEB203 CIRCUIT ANALYSIS

Network theorems, mesh and nodal analysis, complex power; introduction to the concept of steady-state response; introduction to transient response of RL, RC and RCL circuits with step forcing functions; mutual inductance, three phase systems.

Courses: EE43, EE44, IF23 Prerequisite: EEB101

Credit Points: 6 Contact Hours: 3 per week

■ EEB206 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks employment, approved by the Head of School; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Courses: EE43, EE44 Contact Hours: 5 weeks

■ EEB209 ELECTRICAL ENGINEERING 2M

Introduction to the basic principles of microprocessors, microprocessor systems, electrical machines, power control and tariffs; basic level of presentation with heavy emphasis on practical applications.

Courses: IF56, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

■ EEB270 DIGITAL DESIGN PRINCIPLES

Binary variables, number systems; signed numbers and codes; Boolean algebra; logic functions, minimisation; implementation of combinational logic by gates, PROMs and GALs; binary arithmetic, adders and subtractors, overflow conditions; synchronous and asynchronous sequential logic; flip-flops, counters and

shift registers; state diagrams and transition tables, implementation of sequential machines using feedback, flip-flop, PROMs, GALs; TTL, MOS and CMOS logic families.

Courses: EE43, EE44, IF23, IF56

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB271 BASIC ELECTRONIC DEVICES

Passive electronic components; basic semiconductor and semiconductor junction theory; range and application of semiconductor diodes; bipolar transistors and field effect transistors – theory of operation, biasing, use in amplification at mid frequencies and use in logic circuitry; metal on oxide field effect transistors – theory and applications. Complementary MOS logic; power switching devices – SCR, Triac and applications.

Courses: EE43, EE44, IF23

Credit Points: 8 **Contact Hours:** 3 per week

■ EEB272 DIGITAL PRINCIPLES

Binary variables, number systems, Boolean algebra, minimisation of logic functions, logic gates, analysis and synthesis of combinational logic functions.

Courses: EE44, IF23, IF53

Credit Points: 3 **Contact Hours:** 1.5 per week

■ EEB273 MICROCOMPUTERS IN ENGINEERING

Introduction to the physical, virtual and application levels of a microcomputer system; I/O devices and interfacing; operating systems; programming and software packages; transducers and peripheral devices; hardware and software integration.

Course: ME45

Credit Points: 4 **Contact Hours:** 2 per week

■ EEB302 ELECTROTECHNOLOGY 1

Magnetic circuits, magnetic materials, transformers and electromagnetic devices. Power distribution, three phase, balanced and unbalanced loads.

Courses: EE44, IF23

Prerequisites: EEB202, EEB203

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB303 NETWORK THEORY 1

A detailed study of the basic theory of network analysis covering Laplace and Fourier analysis, four terminal network theory, frequency behaviour and transient response of networks.

Courses: EE43, EE44, IF23

Prerequisites: EEB203, MAB187, MAB188

Co-requisite: MAB493

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB362 INTRODUCTION TO COMMUNICATION SYSTEMS

An introduction to the theoretical foundation of communication systems; using the theoretical foundation to develop the operation and characteristics of the basic forms of amplitude and angle modulation; the hardware associated with the generation and detection of the modulation systems.

Courses: EE43, EE44, IF23

Prerequisites: MAB187, MAB188, EEB371

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB371 ELECTRONIC DEVICES

Theory of operation and characteristics of semiconductor devices: diodes, the bipolar junction transistor and the field effect transistor; development and practical applications of small signal models.

Courses: EE43, EE44, IF23, ME46

Prerequisite: EEB101

Credit Points: 5 **Contact Hours:** 3 per week

■ EEB372 SEQUENTIAL LOGIC

Flip-flops, counters, shift registers, asynchronous and synchronous sequential machines. Realisation of sequential machines using PROMs, GALs, etc.

Courses: EE44, IF23, IF53 **Prerequisite:** EEB272

Co-requisite: EEB371

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB373 DIGITAL ELECTRONICS PRINCIPLES

Binary variables to Boolean algebra; logic functions, gates and analysis; combined logic functions; flip-flops, counters, shift registers; sequential machines; sequential machinery using PROMs, GALs, etc.

Course: EE43

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB374 ELECTRONIC CIRCUIT ANALYSIS

Introduce basics of electronics with emphasis on low and high-frequency responses and feedback structure of amplifiers. Differential and multistage amplifiers; low and high-frequency responses of amplifiers; feedback structure of amplifiers; power amplifiers; switching characteristics.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB271

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB380 ENGINEERING MANAGEMENT SKILLS

Writing style, preparation of written documents for engineering and management; spoken English. Oral presentation and speechwriting. Political and technical speeches. Theory of argument and discourse; assertion training, aggressive and passive behaviour. Interpersonal relationships; organisational change and the management of change; professional ethics for engineers and in a wider context; industrial relations; negotiation.

Courses: EE43, EE44, IF23

Credit Points: 8 **Contact Hours:** 3 per week

■ EEB390 ENGINEERING COMPUTING 1

Students will understand principles and use of C syntax and data structures, program structuring and design, programming style and organisation, and program development in an engineering context. Exposure to Unix in a typical engineering workstation environment will be obtained. Experience will be acquired in programming solutions to important electrical engineering problems and applications, particularly numerical techniques, statistical techniques and circuit/signal techniques.

Courses: EE43, EE44

Prerequisite: CSB191

Co-requisite: MAB493

Credit Points: 8 **Contact Hours:** 3 per week

■ EEB400 ELECTROTECHNOLOGY 2

Introduction to electrical power systems calculations; technology of overhead lines and cables; elementary electrical engineering economics.

Course: EE44

Prerequisite: EEB302

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB401 NETWORK THEORY 2

General transform theory; stability and realisability of networks; the synthesis of networks and filters; non-linear analysis techniques for simple networks.

Courses: EE43, EE44, IF23

Prerequisites: EEB303, EEB362

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB404 ELECTRICAL MACHINES

The fundamentals of torque production in rotating machines; the theory of operation and characteristics

of most commonly used machines are then derived from common foundations.

Course: EE44

Prerequisite: EEB302

Credit Points: 6

Contact Hours: 3 per week

■ EEB406 INDUSTRIAL EXPERIENCE 2

Students should engage in at least five weeks employment, approved by the Head of School; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: EE44

Contact Hours: 5 weeks

■ EEB407 AERONAUTICAL INDUSTRIAL EXPERIENCE 2

Students must engage in five weeks of approved employment in the aerospace industry at the end of the fourth semester with a view to gaining detailed experience in several aspects of aerospace industry particularly in relation to concepts peculiar to that industry; students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: EE43

Contact Hours: 5 weeks

■ EEB420 CONTROL SYSTEMS 1

This is a first course in feedback control for engineers. It introduces the student to basic control theory, analysis and synthesis. Hardware is introduced through sensors and activation system. Mathematical Modelling of Dynamical Systems; Sensors and Actuation Systems; Characteristics and Performance of Feedback Control Systems; Linear System Stability.

Courses: EE43, EE44

Prerequisite: EEB101

Co-requisites: EEB401

Credit Points: 6

Contact Hours: 3 per week.

■ EEB430 ENGINEERING FIELDS

Electrostatic and magnetic fields, Maxwell's Equations and electromagnetic waves.

Courses: EE43, EE44 IF23

Prerequisites: MAB187, MAB188, PHB132, PHB232

Credit Points: 6

Contact Hours: 3 per week

■ EEB471 ELECTRONICS

A detailed study of transistor circuits and their applications; circuits fundamental and an understanding of integrated circuit amplifiers.

Courses: EE43, EE44, IF23

Prerequisite: EEB371

Credit Points: 8

Contact Hours: 3 per week

■ EEB473 INTEGRATED ELECTRONICS

The fundamental theory of operation of integrated circuits; the generalised concepts of feedback in electronic circuits; various operational amplifier configurations; oscillators and timing circuits.

Courses: EE43, EE44, IF23

Prerequisite: EEB471

Credit Points: 8

Contact Hours: 3 per week

■ EEB474 MICROPROCESSORS

Microprocessor architecture, instruction sets, assembly language programming; memories, input/output devices and interrupt systems.

Courses: EE43, EE44, IF23, IF53

Prerequisites: EEB372 or EEB373

Credit Points: 6

Contact Hours: 3 per week

■ EEB475 MICROPROCESSOR SYSTEMS

To give students a good grounding in the basic principles and practical use of embedded microprocessor/microcontroller systems, with particular regard to the hardware and software. Parallel data transfer, memory decoding, and Centronics interface; Synchronous and asynchronous serial data communications RS232, RS422 etc; DACs and ADC; Instruction sets, machine

and assembly language programming; Input/output devices, and timers; Real time clocks and interrupt driven systems; Application of C to the programming of embedded systems.

Courses: EE43, EE44

Prerequisites: EEB270, EEB390

Credit Points: 6

Contact Hours: 3 per week

■ EEB520 CONTROL ENGINEERING

Measurement transducers, amplifiers, signal processors and final control elements; system components; application of microcomputers to closed-loop control; examples of closed-loop systems; system transfer function and time domain performance.

Courses: EE43, EE44, IF23

Prerequisite: EEB302

Co-requisite: EEB401

Credit Points: 6

Contact Hours: 3 per week

■ EEB530 ENGINEERING ELECTROMAGNETICS

The aim of this subject is to develop the students' understanding of the basic theory leading to the development and solution of Maxwell's Equations. An objective is to develop his intuitive as well as his theoretical understanding and leave the development of more advanced concepts of the theory till later in the course.

Course: EE44

Prerequisites: MAB493, EEB400, PHB234

Credit Points: 6

Contact Hours: 3 per week.

■ EEB531 ELECTRICAL POWER TRANSMISSION

Equivalent circuits of power equipment; the pu method; power flows in networks, solution by Gauss Siedel; sequence components, fault analysis by sequence methods; power system harmonics; transients due to switching; transmission plant parameters.

Course: EE44

Prerequisite: EEB400

Credit Points: 6

Contact Hours: 3 per week

■ EEB532 POWER SYSTEMS 1

Transmission line parameters, power system modelling and the pu method. Symmetrical faults in power systems. Circuit breakers selection. Generalised circuit constants. Power flow in lumped systems and the power circle diagram. Protection in electrical systems: fuse operation and selection, motor protection, MCCB, IDMT relay, discrimination.

Course: EE44

Prerequisite: EEB400

Credit Points: 6

Contact Hours: 3 per week

■ EEB553 ELECTRICAL POWER EQUIPMENT

Transmission line parameters, standing voltage and travelling waves on transmission lines; introduction to protection of systems, CTs, VTs protection methods of electrical equipment.

Course: EE44

Prerequisite: EEB400

Credit Points: 6

Contact Hours: 3 per week

■ EEB562 TRANSMISSION & PROPAGATION

Transmission line theory, terminated line, Smith Circle Chart usage and lattice diagram; propagation modes in wave guides and optical fibres; free-space propagation, ionospheric and ground wave propagation; basic antenna parameters.

Courses: EE43, EE44, IF23

Prerequisite: EB430

Credit Points: 8

Contact Hours: 3 per week

■ EEB563 SIGNALS & LINEAR SYSTEMS

A detailed study of Fourier theory applied to signals; an overview of systems and their representation; response of systems to signals.

Courses: EE43, EE44, IF23

Prerequisites: EEB303, EEB362, MAB4493/1, MAB493/2

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB573 INDUSTRIAL ELECTRONICS

Modern electronic devices and circuits with particular emphasis on industrial application.

Courses: EE44, IF23

Prerequisite: EEB471

Credit Points: 6

Contact Hours: 3 per week

■ EEB580 AEROSPACE DESIGN 1

Study of the environmental factors affecting the design of aerospace equipment particularly in relation to USA and Australian standards and specifications (eg US Mil Specs, FAQA requirement such as FAR 23, 25 and Technical Service Orders, Australian certification requirements both civil and military). Examination in detail of the operating regime for avionics equipment such as the properties of the atmosphere (temperature, pressure, humidity), design load factors for aeronautical equipment, reliability and duplication requirements.

Courses: EE43

Credit Points: 6

Contact Hours: 3 per week

■ EEB587 DESIGN 1

General principles of electronic circuit and electrical equipment design and the realisation of typical electronic circuits and equipment.

Courses: EE44, IF23

Prerequisite: EEB471

Credit Points: 8

Contact Hours: 3 per week

■ EEB591 SYSTEMS PROGRAMMING LANGUAGES

Introduction to embedded systems and software design using C, C++ and object oriented Pascal; engineering applications for embedded systems.

Courses: EE44, IF23

Prerequisite: EEB474

Credit Points: 6

Contact Hours: 3 per week

■ EEB593 SOFTWARE SYSTEMS ENGINEERING

Students will learn concepts, issues, theory, techniques and practice of software engineering methodologies. They will examine and develop applications software for high level and low level (embedded) systems. They will gain experience in use of computer assisted software engineering facilities and will undertake a major team software design and construction project for an extensive electrical engineering task. Software design principles: OOP as a paradigm for SW design; Program development tools; Human-computer interaction.

Courses: EE43, EE44

Prerequisites: EEB390

Credit Points: 6

Contact Hours: 3 per week

■ EEB600 STARTING A TECHNOLOGY BASED BUSINESS

Business structures, forming a business team, marketing and market research, financing new high-risk business, selling yourself with business plans and presentation skills, product development, manufacturing and distribution, inventions, networking.

Courses: EE44, ME45

Credit Points: 4

Contact Hours: 2 per week

■ EEB601 REAL-TIME OPERATING SYSTEMS

Theory and practical aspects of the use of microprocessors and computers as components in time critical engineering applications; methods of guaranteeing computer response within a specifiable time; applications related to embedded systems and some business applications; design of new systems and study of existing systems.

Courses: EE43, EE44, IF23

Prerequisite: EEB591

Credit Points: 8

Contact Hours: 3 per week

■ EEB602 SIGNAL PROCESSING

Develop techniques for the analysis of stationary random signals in linear systems. Review of probability theory and statistics; stochastic processes; correlation functions; power density spectrum; random signals and linear systems; matched filters; detection and estimation theory; overview of practical applications.

Courses: EE43, EE44, IF23

Prerequisites: EEB361, EEB401, MAB893

Credit Points: 8

Contact Hours: 3 per week

■ EEB606 INDUSTRIAL EXPERIENCE 3

Students should engage in at least five weeks employment, approved by the Head of School; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: EE44

Contact Hours: 5 weeks

■ EEB607 AERONAUTICAL INDUSTRIAL EXPERIENCE 3

Students must engage in 5 weeks of approved employment in the aerospace industry at the end of the sixth semester with a view to gaining specific information and experience in some aspect of aerospace industry; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: EE43

Contact Hours: 5 weeks

■ EEB620 CONTROL SYSTEMS ANALYSIS

Time-domain, frequency-domain, and complex-domain analysis of systems; closed-loop control system performance and system compensation; digital computer control of closed-loop systems; analogue and digital simulation of systems.

Courses: EE43, EE44, IF23

Prerequisite: EEB520

Credit Points: 6

Contact Hours: 3 per week

■ EEB621 ADVANCED CONTROL SYSTEMS

System performance specification format; selection of control system elements; design of linear system compensation using analogue and digital techniques; system non-linearities and non-linear system analysis and design; examples of typical control systems.

Courses: EE44, IF23

Prerequisite: EEB620

Credit Points: 6

Contact Hours: 3 per week

■ EEB624 CONTROL SYSTEMS 2

Analysis and design of systems using state-space method. An introduction to optimal control. Z-transform application to digital control system analysis and design using classical and modern approaches. System identification/modelling. Nonlinear system analysis and design.

Courses: EE43, EE44

Prerequisites: EEB420

Credit Points: 8

Contact Hours: 3 per week

■ EEB632 POWER SYSTEMS 2

Fault analysis (unbalanced faults) on power systems using symmetrical component techniques. Power flows in electrical networks using Gauss-Seidel and Newton-Raphson techniques. Studies of the cause and effects of travelling waves on transmission systems. Computer analysis techniques are used in all areas to reinforce understanding of each topic.

Course: EE44

Prerequisite: EEB532

Credit Points: 6

Contact Hours: 3 per week

■ EEB645 REMOTE SENSING

Definitions and major systems for remote sensing; characteristic spectral reflectance of objects and spectral response of sensors; remote sensing acquisition hardware; remote sensing satellites; thermography and radar; data processing for presentation and enhancement;

cartographic correction of remote sensing data for systematic geometric error.

Course: EE43

Credit Points: 8 Contact Hours: 3 per week

■ EEB652 POWER ELECTRONICS

Review of modern switching components, characteristics and device control methods; principles of operation of controlled rectifiers and chopper techniques for DC motor control; quasi-square wave and PWM invertors for induction and synchronous motor control; static switches for induction motor soft start control and static VAR compensation; induction motor drive and DC motor drive control strategies; harmonic analysis and waveform modelling analysis.

Course: EE44 Prerequisite: EEB573

Credit Points: 8 Contact Hours: 3 per week

■ EEB661 INFORMATION THEORY MODULATION & NOISE

Information in discrete and continuous channels, coding efficiency, statistical description of noise, effects of transformations on signal parameters, error rates, effect of noise in information transfer.

Courses: EE43, EE44, IF23

Prerequisites: EEB362, MAB493

Co-requisite: EEB581

Credit Points: 8 Contact Hours: 3 per week

■ EEB662 MICROWAVE & ANTENNA TECHNOLOGY

Propagation in rectangular and circular guides, guide components, microwave active devices, high frequency techniques, antennas, antenna arrays, computer-aided antenna design, antenna measurements.

Courses: EE43, EE44

Prerequisite: EEB562

Credit Points: 8 Contact Hours: 3 per week

■ EEB680 AEROSPACE DESIGN 2

Designing for reliability as required by the aviation and aerospace industry will augment practical design assignments; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; computer-aided design, computer simulation and programming may be required.

Course: EE43

Prerequisites: EEB362, EEB400, EEB580, EEB620

Credit Points: 8 Contact Hours: 3 per week

■ EEB682 ENGINEERING BUSINESS SKILLS

To provide students with sufficient grounding in business practice, for them to appreciate the fundamental links between engineering practice and business. There should be adequate skills for young professional engineers to start or be an active partner in a small business.

Courses: EE43, EE44

Credit Points: 8 Contact Hours: 3 per week

■ EEB691 AERONAUTICAL COMPUTING

Suitable languages such as ADA are used to implement embedded avionics computer systems and practical experience is gained in the application of object-oriented software design, concurrence and distributed systems used in the aerospace industry.

Course: EE43

Prerequisite: CSB490

Credit Points: 8 Contact Hours: 3 per week

■ EEB692 SPACE TECHNOLOGY

Review of world launch capability; spherical trigonometry; orbits and trajectories eg. launch orbits, geostationary orbits, G.P.S. satellite orbit requirements; gravitational fields, Lagrange points, orbital dynamics and parameters; special purpose orbits; orbit determi-

nation from tracking data; payload techniques; upper atmospheric meteorology and introduction to astronomy.

Course: EE43

Credit Points: 6 Contact Hours: 3 per week

■ EEB722 FLIGHT CONTROL SYSTEMS

Principles and description of flight control systems; performance of aircraft in flight; analysis and simulation of flight control systems; cross-coupling parameters; methods of coupling terrain following radar and other navigational aids; mechanical systems; analogue augmented systems; digital augmented systems; digital computer control relating to multiplex buses (Mil spec); artificial stability; automatic pilots during flight and landing; fibre optic control; fly-by-wire systems; use of redundancy.

Course: EE43

Prerequisites: MEB551, MEB553, MEB611

Co-requisite: EEB947

Credit Points: 8 Contact Hours: 3 per week

■ EEB741 POWER SYSTEMS ANALYSIS

Economic operation of power systems, system stability, power system control; HVDC power transmission; advanced harmonic analysis; surge phenomena in machine and transmission lines.

Course: EE44

Prerequisite: EEB531

Credit Points: 8 Contact Hours: 3 per week

■ EEB742 POWER SYSTEMS ENGINEERING

Substation engineering, protection of plant, substation earthing, system overvoltages, insulation coordination, HV switchgear.

Course: EE44

Prerequisite: EEB531

Credit Points: 8 Contact Hours: 3 per week

■ EEB761 STATISTICAL COMMUNICATION

PCM quantisation noise in uniform and non-uniform quantisation; effects of channel noise on S/N; delta and delta-sigma modulations; threshold extensions, spread spectrum, matched filtering and correlation.

Courses: EE43, EE44, IF23

Prerequisite: EEB661

Credit Points: 8 Contact Hours: 3 per week

■ EEB762 COMMUNICATIONS TECHNOLOGY

Introduction to three important Communication Technology areas. Study of the techniques for system design and performance analysis of Mobile and Satellite Communication systems; study of the fundamentals Optical Fibre Communication Systems.

Course: EE44

Prerequisites: EEB661, EEB967

Credit Points: 8 Contact Hours: 3 per week

■ EEB780 AEROSPACE DESIGN 3

Practical design assignments consisting of detailed design and realisation of typical subsystems used in all areas of the avionics industry; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; computer-aided design, computer simulation and programming may be required.

Course: EE43

Prerequisites: EEB474, EEB602, EEB680

Co-requisites: EEB947, MEB790

Credit Points: 8 Contact Hours: 3 per week

■ EEB784 AEROSPACE PROJECT

An individual engineering project on a special subject. The work requires design, computing, construction and experimental work and practical testing with the submission of appropriate reports; the topic is selected from aerospace engineering and involves electronics, computing, control, communication and electrical power;

it may include programming, circuit and system design.

Course: EE43

Credit Points: 6 Contact Hours: 6 per week

■ EEB788 DESIGN 2

Design principles and practice of more complex electronic circuits; electrical equipment and systems.

Courses: EE44, IF23

Prerequisites: EEB302, EEB587

Credit Points: 6 Contact Hours: 3 per week

■ EEB789 PROJECT

An individual engineering project on a specified topic is completed; the work will require design, computing, construction, experimental work and practical testing with the submission of appropriate reports; the topic is selected from any area which involves electronics, computing, control, communication and educational power and may include programming, circuit and system design.

Courses: EE44, IF23

Co-requisites: This unit must be done in the final year of the course.

Credit Points: 32 Contact Hours: 6 per week

■ EEB791 ADVANCED ENGINEERING COMPUTING 1

An examination of underlying theory and algorithms pertaining to selected advanced computational techniques for selected areas of engineering problems. Practical experience in the use of existing software and in constructing their own implementations of some techniques, for engineering problems, is obtained. Artificial intelligence techniques; Optimisation techniques; Simulation techniques:

Course: EE44

Prerequisite: EEB593

Credit Points: 8 Contact Hours: 3 per week

■ EEB820 ENGINEERING MANAGEMENT

Economic analysis of electrical engineering projects; present worth and annual cost calculations. Assessment of tenders; project management, critical paths and linear programming methods; contract administration. Engineering case studies.

Courses: EE43, EE44, IF23

Credit Points: 8 Contact Hours: 3 per week

■ EEB821 PRODUCTION TECHNOLOGY & QUALITY

The methodology of electronic system design, the range of production processes in electronic manufacture, and the quality control procedures at both prototype and full production stages.

Courses: EE43, EE44, IF23

Credit Points: 8 Contact Hours: 3 per week

■ EEB822 ADVANCED CONTROL SYSTEMS

Analysis and design of optimum control technique. Variational calculus approach and Hamilton-Jacobi approach to control system design. Stochastic processes and linear and non-linear optimum state estimation. Discrete optimal control. Discrete-data control systems. Microprocessor and DSP control.

Course: EE44

Prerequisites: EEB624

Credit Points: 8 Contact Hours: 3 per week.

■ EEB841 MINING ELECTROTECHNOLOGY

Definition of hazardous locations; methods of protection of electrical equipment; intrinsically safe circuits, flameproof equipment; power supply systems in mines; planning, voltage regulation, fault levels, dynamic operation; earthing in mines; monitoring and control equipment; communications systems in mines; testing

and certification of mining equipment; gas explosion testing, assessment of intrinsically safe equipment, CTI testing, temperature rise and high current testing.

Course: EE44, IF23

Prerequisite: EEB531

Credit Points: 7 Contact Hours: 3 per week

■ EEB880 AEROSPACE DESIGN 4

Practical design assignments consisting of the realisation of complete system designs for a specific aspect of the avionics industry; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; factors such as reliability, complexity, economic considerations and system (and sub-system) optimisation; computer-aided design; computer simulation and programming may be required.

Course: EE43

Prerequisite: EEB780

Credit Points: 7 Contact Hours: 3 per week

■ EEB887 DESIGN 3

Detailed design and realisation of typical electronic and power based subsystems used in all areas of electronic systems and power systems engineering.

Courses: EE44, IF23

Prerequisite: EEB788

Credit Points: 8 Contact Hours: 3 per week

■ EEB888 DESIGN 4

System design techniques and practice on typical electronic systems and power systems, taking into account such factors as realisability, reliability, complexity, economic considerations and optimisation.

Courses: EE44, IF23

Prerequisite: EEB887

Credit Points: 10 Contact Hours: 3 per week

■ EEB890 ADVANCED INFORMATION TECHNOLOGY TOPICS

The latest techniques in information engineering systems: image enhancement, image restoration, computer vision; practical aspects of digital spectral estimation and linear system identification.

Course: EE43, EE44

Prerequisites: EEB591, EEB602, MAB894

Credit Points: 8 Contact Hours: 3 per week

■ EEB891 SIGNAL COMPUTING & REAL-TIME DSP

Signal theory; speech processing; image processing and real time DSP; the fundamentals of signal processing concepts; applications of signal processing techniques.

Courses: EE43, EE44, IF23

Prerequisites: EEB602, EEB968, EEB967

Credit Points: 8 Contact Hours: 3 per week

■ EEB892 ADVANCED ENGINEERING COMPUTING 2

Selected basic graphic techniques and writing of simple engineering graphics software; application of graphics software libraries and interactive graphics facilities; appreciation of graphical user environments, interface, windows and graphical tools; an understanding of and ability to use 2D/3D/4D data visualisation techniques, and spatial data manipulation.

Course: EE44

Prerequisites: EEB593

Credit Points: 8 Contact Hours: 3 per week

■ EEB901 INDUSTRIAL EXPERIENCE 1

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: IF23

Contact Hours: 5 weeks

■ EEB902 INDUSTRIAL EXPERIENCE 2

See EEB901.

Course: IF23

Contact Hours: 5 weeks

■ EEB903 INDUSTRIAL EXPERIENCE 3

See EEB902.

Course: IF23

Contact Hours: 5 weeks

■ EEB922 INDUSTRIAL CONTROLLED SYSTEMS

Computer control of typical process control systems; numerical control of machine tools and an introduction to robotics; optimal control and self-adaptive control systems; sequential control systems.

Courses: EE44, IF23

Prerequisite: EEB621

Credit Points: 8

Contact Hours: 3 per week

■ EEB932 AUTOMATIC FLIGHT CONTROL

The application of design principles to the Flight Control Systems of modern civil and military aircraft. Derivation of transfer functions for aircraft and missiles including effects of vibration and other perturbations on servo systems along with servo actuators and sensors. Use of conventional and modern control theory to analyse and design and lateral-directional stability augmentation systems and control augmentation systems. Study of autopilot design for various tasks including turn co-ordination and automatic landing, stabilisation of aircraft and adaptive control systems.

Course: EE43

Prerequisites: EEB723, MEB551, MEB611, MEB553

Co-requisite: EEB947

Credit Points: 8

Contact Hours: 3 per week

■ EEB933 COMBAT SYSTEMS

Sound generation propagation and analysis in the maritime environment; principles and application of lasers to sighting and guidance systems; principles of detection of submarines using magnetometers; infra-red propagation and its use in detection and weapons guidance; including ECM/ECCM; sonar processing; laser processing and guidance; radar guidance/sighting; gun sights; weapons control systems; IFF/ transponders; command and control; magnetic anomaly detection; tactical navigation systems; infra-red.

Course: EE43

Prerequisite: EEB947

Credit Points: 8

Contact Hours: 3 per week

■ EEB934 ADVANCED COMMUNICATIONS & NAVIGATION SYSTEMS

Expansion of previous theory; develop an increased understanding of systems previously described; complex algebra required for error-correcting codes and auto-correlation and cross-correlation of pseudo-noise sequences; investigation and simulation of error-correcting communication systems; detailed investigation into modern communication systems; theory of acquisition and tracking using delay-lock and similar techniques; use of fast-fourier and parallel processing the Global Positioning System (GPS); position fixing using GPS.

Course: EE43

Prerequisites: EEB362, EEB562, EEB662, EEB968

Co-requisite: EEB947

Credit Points: 8

Contact Hours: 3 per week

■ EEB935 ADVANCED SATELLITE SYSTEMS

Design of communication systems for spacecraft; spacecraft and ground stations performance; special modulation methods; coherent frequency translation modes of operation; analysis of intermodulation distortion; carrier regeneration or synchronisation and acquisition and tracking requirements; analogue and digital processing of signals in the presence of noise; factors affecting accuracy of ranging; characterisation of spacecraft components and a critical evaluation of alternative design methods; design parameters of vari-

ous aerial systems; design of low-noise amplifiers; description of B-MAC television system.

Course: EE43 Prerequisites: MEB692, MEB790

Credit Points: 8

Contact Hours: 3 per week

■ EEB947 RADAR & RADIO NAVIGATION

Radar equation; theory of reception; matched filtering; principles of detection; types of radars; primary and secondary radar; surveillance; tracking; navigation; terrain-following radar; radar techniques including doppler extraction, moving target indicator, pulse compression, ranging parameter optimisation, application of matched filtering and Wiener and Kalman filtering; detailed and systematic study of navigational systems; microwave landing systems.

Course: EE43

Prerequisites: EEB561, EEB562, EEB662, EEB968

Credit Points: 8

Contact Hours: 3 per week

■ EEB951 HIGH VOLTAGE EQUIPMENT

Review of modern insulating materials; high voltage test methods and apparatus; characteristics of electrical insulation theories of breakdown in dielectrics; non-destructive testing methods, dielectric loss angle, partial discharge; voltage surge distribution in power equipment; overhead line insulation and lightning.

Course: EE44, IF23

Co-requisite: EEB742

Credit Points: 8

Contact Hours: 3 per week

■ EEB954 ELECTRICAL ENERGY UTILISATION

Power reticulation in building, energy management, fire protection systems, illumination technology, air conditioning plant, building supervising and control systems, lifts.

Course: EE44, IF23

Prerequisite: EEB553

Credit Points: 8

Contact Hours: 3 per week

■ EEB955 POWER ELECTRONICS APPLICATIONS

Review of power electronic switching devices; variable speed AC and DC drives; high voltage DC transmission (HVDC); standard static VAR compensators and new developments. Uninterruptible power supplies (UPS); induction heating; high frequency switching technology in variable speed AC drives; power electronic physical layout considerations.

Courses: EE44, IF23

Prerequisite: EEB652

Credit Points: 8

Contact Hours: 3 per week

■ EEB956 PHOTOVOLTAIC ENGINEERING

The various aspects of photovoltaic systems including flat panel and concentrating solar cell arrays, series-parallel connection for optimal array design, array measurements, power conditioning, load management, energy storage, system costs, and balance, of subsystems.

Course: EE43, EE44, IF23

Prerequisite: EEB587

Credit Points: 8

Contact Hours: 3 per week

■ EEB961 COMMUNICATIONS TECHNIQUES

Modern communication techniques including switched networks, broadcast, point-to-point systems; microwave and optical links; radio navigation and radar; associated electronic devices.

Courses: EE44, IF23

Prerequisite: EEB967

Credit Points: 7

Contact Hours: 3 per week

■ EEB962 MICROWAVE SYSTEMS ENGINEERING

Microwave thermionic and semiconductor devices, amplifier design using scattering parameters; passive microwave devices: non-linear networks and ferrites; array theory and design, microwave antennae.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB662
Credit Points: 8 **Contact Hours:** 3 per week

■ EEB967 DIGITAL COMMUNICATIONS

The theory and applications of digital communications technology; baseband digital signals are introduced; pulse shaping, signal regeneration, measurement techniques and the digital coding of analogue signals are treated; such applications as digital radio systems, digital telephone and computer networks, error control in digital networks and ISDN.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB967
Credit Points: 8 **Contact Hours:** 3 per week

■ EEB968 DIGITAL SIGNAL FILTERING, DETECTION, ESTIMATION AND CLASSIFICATION

Introduction to digital signal processing; discrete Fourier transform; discrete convolution; digital filtration and spectral estimation.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB602
Credit Points: 8 **Contact Hours:** 3 per week

■ EEB969 SIGNAL FILTERING & ESTIMATION

Modern spectral estimation, parametric and non-parametric; time frequency analysis and instantaneous frequency estimation; definition and implementation of higher order spectra; application to signal detection and classification.

Courses: EE44, IF23 **Prerequisite:** EEB968
Credit Points: 7 **Contact Hours:** 3 per week

■ EEB971 APPLIED ELECTRONICS

Analysis of the characteristics and applications of a variety of integrated devices; particular attention is given to new products; errors and quality of design.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB573
Credit Points: 8 **Contact Hours:** 3 per week

■ EEB972 INTEGRATED ELECTRONIC TECHNIQUES

Commercially available integrated circuits and their typical applications in industry; design rules, limitations and methods of VLSI fabrication.

Courses: EE43, EE44, IF23 **Prerequisite:** EEB573
Credit Points: 8 **Contact Hours:** 3 per week

■ EEB980 AEROSPACE LAW

Aviation law, national and international; cargo constraints, restricted airspace, transport of people and animals, dangerous cargoes and firearms; the division of the upper atmosphere and space; insurance.

Course: EE43
Credit Points: 7 **Contact Hours:** 3 per week

■ EEB999 ADVANCED ELECTRICAL ENGINEERING TOPICS

Students are introduced to the current technology that is the expertise of visiting specialists or staff within the School.

Course: EE44 **Prerequisites:** As required
Credit Points: 8 **Contact Hours:** 3 per week

■ EEP101 ALGORITHMS FOR CONTROL & ENGINEERING

Solution of equations using numerical analysis methods and computer algorithms; differential and difference equations, numerical approximations and computational flow diagrams. Computer control of closed-loop systems, continuous and discrete systems, system hardware, sampled data systems design techniques, system simulation. State-space theory, and system performance optimisation; state equation, transformations, state equation solution, closed-loop system pole-placement design, performance criteria, dynamic

optimisation methods. Spectral analysis and digital filtering. Discrete time adaptive filters. An introduction to neural networks and to fuzzy logic.

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP102 UNIX & C FOR ENGINEERS

Introduction to Operating Systems; commonly used commands; the file structure; the Shell; the vi Editor, Shell script. Types, operators and expressions, control flow, functions, pointers and arrays, structures, input and output. Applications of C and Unix in real time signal processing and control.

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP103 COMPUTER HARDWARE & INTERFACING

State-of-the-art digital devices; design and implementation of digital systems; microprocessors and microcontroller systems and interfacing; computer architectures, subsystems and peripherals.

Courses: EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP104 REAL-TIME OPERATING SYSTEMS

Definition and introduction: review of current commercial real time operating systems, including RT-11 and UNIX-like operating systems. Structure: management; input/output management; file management; resource allocation and scheduling; protection; job control and multitasking. Development of programming skills: structured programming techniques, modular programming techniques; documentation of programs; interrupt handling techniques. Using assembler and high-level languages (C, Forth, Ada, Pascal, Modula-2 etc).

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP120 NETWORKS & DISTRIBUTED COMPUTING

The Open System Interconnection model and the more common standards (such as CCITT, IEEE and MAP) which support the model; layers 3-7 (covered in depth), layers 1 and 2 (covered by reference); the computers, software packages, and protocols; networks structures (tree structures, multi-drop, star structures), software techniques (such as collision detection, tokens), data transfer protocols; examples of local area networks and wide area networks; hardware implementation of OSI layers and protocols.

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP121 PARALLEL & SUPER COMPUTING

The latest in vector processing and parallel computing technology; students will have access to parallel computer development systems and may be required to undertake a small research project.

Course: EE65

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP122 GRAPHICS & COMPUTER VISION

An introduction to the human visual system and the modelling of digital images; it also provides an introduction to a range of digital image process systems, transforms, image enhancement, image structural operations and pattern recognition.

Course: EE65

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP123 PROCESS CONTROL & ROBOTICS

Introduction to robotics; introduction to CNC machine

tools; process control; controller tuning, plant characterisation and process optimisation; computer simulation and algorithms.

Courses: EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP124 DATA COMMUNICATIONS

The OSI Model – overview; examples of channels; physical layer interface standards; multiple access methods; modems; data coding error detection and correction; data compression encryption; public networks.

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP125 ADVANCED ENGINEERING SOFTWARE TOOLS

Numerical techniques and computer software tools in procedural and non-procedural languages as well as specialised commercial applications packages for the analysis and design of data transmission systems.

Course: EE65

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP126 COMMUNICATIONS DIGITAL SIGNAL PROCESSING

Source and channel coding; waveform coding; adaptive filtering in communication; applications of speech technology in communication; applications of DSP technology; real time DSP devices and their applications in communications.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP127 ADVANCED TOPIC B

An advanced topic in the field of computers and communication engineering. This topic will change from year to year and is announced at the beginning of the year.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP128 DETECTION & ESTIMATION

Introduction to the theory of random variables and probability; signal detection; hypothesis tests, Neyman-Pearson detectors; uniformly most powerful tests for Gaussian case. Examples of detection of: an unknown deterministic signal in Gaussian noise of known probability distribution; Matched-Filter interpretation; a Gaussian signal of known distribution in Gaussian noise of known distribution. Detection in the non-Gaussian case. Parameter estimation: the Maximum Likelihood Estimator.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP129 IMAGE PROCESSING & COMPUTER VISION

Image representation and modelling; image enhancement; image restoration; boundary detection techniques and algorithms; image segmentation; shape description techniques; neighbourhood operators; mathematical morphology.

Courses: CE74, EE65, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP135 ADVANCED DIGITAL SIGNAL PROCESSING

General properties of stationary processes; basic spectral properties of the processes; practical aspects of digital spectral estimation; identification of linear systems; digital higher-order spectral estimation; identification of non-linear systems; an update in the advances in digital signal processing.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP137 ADVANCED TOPIC A

An advanced topic in the fields of computers and communication engineering. This topic will change from year to year and is announced at the beginning of the year.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ EEP201 FUNDAMENTALS OF POWER SYSTEM EARTHING

Electrode resistance, potential gradient areas of common types of electrodes; multiple electrodes; electric shock; calculation of step and touch potentials; introduction to substation earthing; measurement of soil resistivity and electrode resistance; earthing of transmission lines; earth current distribution on faulted lines; distribution systems: MEN, SWER, safety during faults; flow of lightning currents to ground.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP202 THERMAL RATINGS & HEAT TRANSFER

Thermal conduction in simple geometries; forced and natural convection from plates and cylinders; radiation from hot surfaces; calculation of steady-state and time-varying temperatures in conductors; temperature measurement methods for high voltage equipment; thermal ratings of overhead lines; cable rating; temperature rise of power transformers.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP203 TESTING & CONDITION MONITORING

HV testing; temperature rise testing of electrical equipment; insulation testing; oil testing; condition monitoring systems.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP204 POWER SYSTEM LOAD FLOW ANALYSIS

p.u. revision; data collection methods; load flow algorithms; single and three-phase models; load flow applications; base case and contingency analysis in planning augmentation options, system operations contingency analysis; load flow analysis methodology; practice in analysis of transmission and distribution systems using an interactive package.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP205 POWER SYSTEM FAULT CALCULATIONS

Representation of generators, lines, transformers in positive sequence equivalent circuits; unbalanced fault conditions; complete sequence representation of power system equipment; per unit positive, negative and zero sequence network diagrams; calculation of generator and transformer sequence equivalent circuits from manufacturer's test data; calculation of line sequence impedances from line layout and soil resistivity; interference with telecommunications circuits; short circuit calculations to AS3581 using an interactive computer package.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP204

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP206 PROJECT MANAGEMENT

Activity networks; Basic Time Schedules and Gantt charts; project management packages – output reports, exercises related to electricity supply; analysis of critical path; types of resources; resource profiles and resource scheduling; methods of project administration and reporting; multi-project scheduling.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP207 OVERHEAD TRANSMISSION LINE ROUTE SELECTION – ENVIRONMENTAL

Legislation, standards and guides: radio interference, electromagnetic fields, low frequency induction, touch potentials, structure earthing, electrolytic corrosion, clearances, land legislation, environmental impact statements; current safety and environmental issues; requirements of other public utilities – Telecom, Railways, roadworks, marine, water, gas, oil; cost of environmental enhancements and alternative technologies; right of way; route selection principles: structure types, terrain shielding, identification of material and man-made features.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP208 ECONOMIC ANALYSIS FOR POWER SYSTEMS ENGINEERS

Cost of supply and tariff analysis; principles of economic analysis; methods of economic analysis; total/life cycle costs of plant; cost benefit analysis for engineering decision making; budgeting and cost control.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP209 POWER SYSTEM HARMONICS

Generation of harmonics; system response characteristics; effects of harmonics; reactive power compensation and harmonic control; measurement of harmonics; recommended practices including AS2279.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP205

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP210 ABNORMAL SYSTEM VOLTAGES

Supply quality standards; 50 Hz voltage; negative phase sequence voltages; AS1359 requirements, voltage unbalance studies, modelling, measurement; voltage transients and flicker: AS2279 requirements, disturbing loads, remedial measures, transient disturbances and power system plant; power system transient analysis: EMTP studies; measurement of voltage disturbances: instrumentation, transducers, accuracy.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP205

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP211 BASIC POWER SYSTEM PROTECTION

Protection principles and philosophy; power system components; unit and non-unit protection; relay equipment technology; relay application; equipment acquisition; basic relay setting methods; testing of relays and protection systems; protection operations.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP205

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP212 ADVANCED POWER SYSTEM PROTECTION

Revision of fault level calculations; protection schemes; current and voltage transformer transient characteristics; relay setting calculations; design and specification of protection schemes; modern developments and trends in protection; quality control and performance assessment.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP211

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP213 STATISTICS

Review of probability concepts, random variables, probability distributions and stochastic independence, definition of random variables for relevant applications; specific probability distributions; data collection and storage strategies to produce data from which valid

inferences can be drawn; data description; parameter estimation; assessment of probable reliability of estimates.

Courses: EE60, EE82, EE78

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP214 RISK ASSESSMENT IN THE ELECTRICITY SUPPLY INDUSTRY

Identification of hazards; hazard and operability studies; assessment of frequency; assessment of consequences; legal and economic consequences; case studies including identification of hazards, assessment of risks, and consequences in ES1.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP214

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP215 RELIABILITY

Reliability models; reliability analysis methods; corporate reliability standards; fundamentals of reliability assessment; reliability theory; determination of equipment failure rates and repair times; interval between failures, time to repair, failure modes and effects.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP213

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP216 TRANSMISSION LINE DESIGN – ELECTRICAL

Electrical design of transmission lines with ratings of 33kV to 500kV; standard and new technology insulators: power frequency, impulse and switching flashover voltage, pollution and creepage, wet and dry flashover, mechanical characteristics; feasible structure types; tower footing resistance and counterpoise; insulation coordination methodology; determination of RI using state of the art methods; design to ensure that electrostatic and electromagnetic fields do not exceed NH & MRC guidelines.

Courses: EE60, EE78, EE82

Prerequisites: EEP201, EEP202, EEP203, EEP205, EEP207, EEP210

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP217 TRANSMISSION LINE DESIGN – MECHANICAL

Route survey and profile plotting; sag-tension-temperature calculations; requirements for survey data; statutory and enterprise requirements for line layout: clearances, mechanical loading, safety criteria; definition of loading conditions, structure capacities, layout clearances; applied mechanics of strung conductors; strength and rating of overhead line hardware; selection of standard design temperature that provides for emergency loading; load/weather probability considerations; determination of everyday tensions from allowable stress or tension/mass ratio; determination of vibration protection; assessment of conductor galloping for power and communications cables; transmission line estimating techniques; selection of structure type based on optimum capitalised costs.

Courses: EE60, EE78, EE82

Prerequisites: EEP208, EEP216

Credit Points: 4 **Contact Hours:** 3 per week

■ EEP218 INTRODUCTION TO AUTOMATED SYSTEM CONTROL & SUPERVISORY SYSTEMS (SCADA)

SCADA fundamentals and protocols; SCADA equipment; transmission SCADA systems, distribution automation systems, distribution control systems, PC software applications; alarm philosophy and control principles; specification of MMI; computer system platforms; communication system principles; data communications and I/O capacities and types, I/O processing;

application of SCADA systems to transmission and distribution systems; cost/benefits of alternative schemes.

Courses: EE60, EE78, EE82

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP219 HIGH VOLTAGE SUBSTATION EQUIPMENT, POWER TRANSFORMERS & REACTIVE POWER PLANT**

Principles of power transformer design from distribution transformers to EHV transformers; leakage and magnetising reactance; losses, harmonics and inrush currents; short circuit forces; tests to measure ratio, losses, impedance, phasing, temperature rise; accuracy and traceability of tests; interpretation of test reports; surge phenomena in windings, RSG and impulse testing of power transformers, interpretation of test results; oil cooling systems; fire protection; tap changers and associated controls; analysis of transformer failure modes; in-phase and quad-boost regulators; series and shunt reactors; reactors for harmonic filters; SVCs: design considerations, equipment characteristics and equipment characteristics.

Courses: EE60, EE78, EE82

Prerequisites: EEP202, EEP203

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP220 DISTRIBUTION PLANNING**

Essential data requirements; sources of information; identification and quantification of current and future limitations; alternative solutions to problems; application of solutions to actual problems; comparison of alternatives including economic, technical and environmental comparisons; presentation of planning study information in an accurate and succinct format.

Courses: EE60, EE78, EE82

Prerequisites: EEP205, EEP208

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP221 LIMITS TO POWER SYSTEM STABILITY**

Time domain models and characteristics of synchronous machines; induction generator models; assessment of model bandwidth for use in dynamic studies; characteristics of load plant; evaluation of small signal adequacy by eigenvalue analysis; determination of modes of electromechanical and control systems; identification of modes with insufficient damping, eigenvalue participating states and eigenvectors; establishment of transfer evaluation of gains/phases at identified model frequencies; time domain dynamic simulations of power system operation; numerical models for prediction of large disturbance behaviour of interconnected power systems; stability of system under contingency and emergency conditions; stability improvement using: controlled reactive devices, special control systems, braking resistors, U/F load shedding, FACTS.

Courses: EE60, EE78, EE82 **Prerequisite:** EEP205

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP222 MAINTENANCE OF ELECTRICITY SUPPLY SYSTEMS**

Establishment of maintenance policies; maintenance planning; data recording and analysis; maintenance operations; maintenance program evaluation; assessment against KPI, modification of programs to account for continuing defects and failures or to reflect changing technologies.

Courses: EE60, EE78, EE82

Prerequisites: EEP208, EEP215

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP223 LOAD FORECASTING**

Nature of load patterns: categories of DSM, costs of DSM, options, benefits and limitations to DSM; tariffs

and their impact; impact of economic trends on demand growth; load manipulation; load forecast methods; establishment of base loads from: historical load data, customer load predictions, and other contributing factors; prediction of growth rates; generation of load forecasts.

Courses: EE60, EE78, EE82

Prerequisites: EEP208, EEP213

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP224 POWER SYSTEM OPERATION**

Frequency control and AGC under normal load conditions, operation under emergency and contingency conditions, black starting, load shedding philosophy; generation operation; contract fuel prices, variations, automatic generation control systems; analysis of power station operating costs; establishment of optimum operating costs; management of forced outages; coordination of planned outages including assessment of risks and contingency planning; control of reactive power and voltage levels under normal and abnormal conditions; load reduction – instantaneous, delayed and planned; maintenance of consumer services and records.

Courses: EE60, EE78, EE82

Prerequisites: EEP202, EEP212, EEP215, EEP218, EEP221, EEP223

Credit Points: 4 **Contact Hours:** 3 per week

■ **EEP230 THESIS A**

Students work in industry for 100 days of supervised practice in industry. As part of this practical training, one or more linked topics are identified that are related to the work of the section in which the training is carried out. A masters thesis is prepared describing results of studies done by the student during the practical training.

Course: EE78

Credit Points: 12 **Contact Hours:** 3 per week

■ **EEP231 THESIS B**

Work done in this unit and the related unit EEP230 are examined by submission of a single masters thesis.

Course: EE78

Credit Points: 12 **Contact Hours:** 3 per week

■ **EEP300 RESEARCH PROJECT**

A computer engineering research project in the student's chosen field encompassing a literature search, design, hardware construction or writing of software, testing and publication of a thesis.

Course: EE75

Credit Points: 48 **Contact Hours:** 168 hours total

■ **EEP301 PROJECT**

Students carry out research or development work on a mini project in specified areas.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ **EEP302 RESEARCH COMPONENT 1**

Research component of EEP101, EEP102, EEP123 and EEP124.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ **EEP303 RESEARCH COMPONENT 2**

Research component of EEP102, EEP104, EEP120 and EEP129.

Course: CE74, EE75

Credit Points: 12 **Contact Hours:** 3 per week

■ **EET500 ELECTRICAL TECHNOLOGY**

Introduction to electric motors, generators, transformers and three phase systems.

Course: ME23

Credit Points: 6 **Contact Hours:** 3 per week

EET522 CONTROL SYSTEMS 2

Process control system terminology and symbols; review of hardware; chart recorders; sizing of control valves; measurement of mass flowrate, humidity and chemical composition; analogue data transmission standards; three term controllers and other techniques; examples of process control configurations, such as cascade, ratio and feedforward control; controller tuning; system performance for reference, noise and load disturbances; accuracy, steady state errors, effect of type number on performance; stability and more advanced frequency domain analysis; machine control systems, such as DC motor speed controllers, variable frequency controllers, servosystems, machine control systems.

Course: EE22 Prerequisite: EET420
Credit Points: 7 Contact Hours: 3 per week

EET560 COMMUNICATIONS ENGINEERING 1

Advanced signal analysis using Fourier methods; AM generation and detection, the effects of filtering and noise; FM and PM generation and demodulation, effects of noise, FM threshold, SSB methods; phase locked loop principles; radio receiver circuits, double conversion, spurious responses; pulse analogue modulation, PAM, PWM, PPM, circuits and spectra.

Course: EE22 Prerequisites: EET270, EET460
Credit Points: 7 Contact Hours: 3 per week

EET570 ELECTRONICS 2

Integrated circuit amplifiers and their applications; other areas of study include: power amplifiers; optoelectronic devices; voltage regulators and a survey of semiconductor switching devices.

Course: EE22 Prerequisite: EET270
Credit Points: 7 Contact Hours: 3 per week

EET590 MICROPROCESSOR SYSTEMS

Assembly language programming and use of microprocessors as electrical engineering hardware. Interfacing of microprocessors to instrumentation and external equipment.

Course: EE22 Prerequisites: CST390, EET676
Credit Points: 7 Contact Hours: 3 per week

EET642 ELECTRICAL POWER SYSTEMS

Single line diagrams, pu systems, transmission line equivalent circuits, fault balanced calculations, power flow calculations, overhead line and underground cable characteristics, power system insulation.

Course: EE22 Prerequisite: EET350
Credit Points: 7 Contact Hours: 3 per week

EET650 ELECTRICAL EQUIPMENT

Three phase transformers, multiwinding, auto; special types of AC machines including three phase and single phase induction motors, synchronous machine construction and operation.

Course: EE22
Credit Points: 7 Contact Hours: 3 per week

EET678 APPLIED ELECTRONICS

The integrated circuit approach to electronic systems design; the unit is highly practical and utilises the basic fundamentals of ICs given in integrated circuits; further treatment of integrated circuits with practical applications: amplifiers (all the common configurations), oscillators, special purpose circuits such as peak detectors, sample and hold circuits, active filters.

Course: EE22 Prerequisite: EET570
Credit Points: 7 Contact Hours: 3 per week

EET690 COMPUTER ORGANISATION

A comparative study of computer architectures and operating systems from microprocessors up to super com-

puters; virtual machines, interpreters, compilers, linkers, loaders, disc operating systems and executive; instruction sets, addressing modes and instruction pre fetch cycles; a survey of memory management techniques such as memory maps, virtual memory, cache memory, and interleaving; exception processing methods such as interrupts, autovectors, bus errors and supervisor states; multi processor systems and computer communications standards, networks and protocols. Parallel computing, pipelines, single instruction multiple data and multiple instruction multiple data machines.

Course: EE22 Prerequisite: CST390
Credit Points: 7 Contact Hours: 3 per week

EET720 MODERN CONTROL TECHNOLOGY

Onstream analysers; intelligent analytical equipment; sequence control and programmable logic controllers; robot sensors and control systems; computer numerical controlled machines; distributed control systems; sampling theory and algorithm development; communication between intelligent control systems (such as MAP and TOP); adaptive and automatic tuning controllers; advanced testing instruments.

Course: EE22 Prerequisite: EET420
Co-requisite: EET522
Credit Points: 7 Contact Hours: 3 per week

EET737 TRANSMISSION & PROPAGATION

Transmission lines study of waves; reflections; matching; using Smith circle and computer aided techniques; electromagnetic waves in free space and at the boundary between media; basic antenna parameters and properties, waveguide theory and microwave techniques; optical fibre technology.

Course: EE22
Credit Points: 7 Contact Hours: 3 per week

EET753 TESTING & COMMISSIONING TECHNIQUES

The philosophy of testing quality assurance and commissioning; test methods and techniques for various electrical tests; application of test methods and techniques to a range of electrical plant; principles of earthing in a power system; safety procedures.

Course: EE22
Credit Points: 7 Contact Hours: 3 per week

EET760 COMMUNICATIONS ENGINEERING 2

Sampling, reconstruction, spectra; quantisation, dynamic range and noise; PCM methods and circuitry, companding; delta modulation; digital transmission, TDM, FDM, modulation methods; error correction and data communication protocols.

Course: EE22 Prerequisite: EET560
Credit Points: 7 Contact Hours: 3 per week

EET791 COMPUTER PROGRAMMING 2

Development of the concepts introduced in CST390 to include the full range of features in this language; an introduction to the features of FORTRAN.

Course: EE22 Prerequisite: CST390
Credit Points: 7 Contact Hours: 3 per week

EET840 SUBSTATIONS & PROTECTION SYSTEMS

Study insulation coordination principles, substation layout and equipment including circuit breakers, current and voltage transformers and their characteristics; an introduction to sequence components and fault calculations; a description of different types of protection systems and their integration with the power system, especially substations.

Course: EE22 **Prerequisite:** EET642
Credit Points: 7 **Contact Hours:** 3 per week

■ EET860 COMMUNICATIONS TECHNOLOGY

Broadcast radio and TV, terrestrial and satellite; specialised broadcast systems, eg. police, taxi; point-to-point radio communications; telemetry; switched systems, circuit and packet switching, exchangers, traffic; use of different frequency ranges, VLF, MF, HF, VHF, UHF and SHF for radio communications; a number of compulsory industrial visits are arranged.

Course: EE22 **Prerequisite:** EET570
Credit Points: 7 **Contact Hours:** 3 per week

■ EET870 INDUSTRIAL ELECTRONICS

Study of a wide range of electronic devices and circuits associated with industrial control systems; a wide range of power switching devices and their applications are studied together with electronic measurement systems and their transducers.

Course: EE22 **Prerequisite:** EET570
Credit Points: 7 **Contact Hours:** 3 per week

■ EET880 DESIGN

The main concepts of electrical design and introduction to relevant specifications and standards; further work is in the form of design projects in which a written report must be submitted.

Course: EE22 **Prerequisites:** Major units in selected modules
Co-requisites: Major modules 1(d) and 2(d)
Credit Points: 7 **Contact Hours:** 3 per week

■ EET891 ADVANCED COMPUTING TECHNIQUES

Applications of computers and microprocessor systems to data collections supervisory and active control functions; real-time operating systems and software development in both low-level languages and high-level languages such as C or MODULA 2.

Course: EE22 **Prerequisite:** CST390
Credit Points: 7 **Contact Hours:** 3 per week

■ EPB100 ADMINISTRATIVE THEORY

Use of political theories and models in the study of public administration; theories of democracy; individualism, pluralism, elitism, corporatism, Marxism; theories of power: McClelland, Lasswell; theories of bureaucracy: Weber, Mosca, Michels, Marx; use of management theories and models in the study of public administration: classical/traditional theory; human relations theory; systems theory and structural functionalism; action theory (Harmon).

Course: BS50
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB101 ADVANCED ECONOMIC THEORY & POLICY

The foundations of economic thought and recent contributions to the literature of micro and macro theory and policy; their relevance for public and private decision making in the Australian context.

Course: BS50 **Prerequisites:** EPB142, EPB152
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB102 APPLIED ECONOMETRICS A

Econometric models widely used by business to improve forecasting and decision making as well as by government to assist in the policy formulation process; the practical problems encountered in using the single equation econometric model; model assumptions; specification error and testing; alternative functional forms; multi-collinearity; serial correlation; heteroscedasticity; the use of dummy variables; intro-

duction to the statistical package SAS.

Course: BS50 **Prerequisite:** EPB110
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB103 APPLIED ECONOMETRICS B

Single equation methods such as lagged dependent variables and principle components with applications in economics; simultaneous equation methods, identification problems; estimation methods such as indirect least square, two stage least squares and three stage least squares; important practical issues relating to the non-stationarity of most economic data.

Course: BS50 **Prerequisite:** EPB102
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB104 APPLIED ECONOMIC TECHNIQUES 1

Aspects of regression analysis with particular application to the estimation of demand, production and cost functions and the interpretation of results; approaches to forecasting including time series smoothing methods, the classical decomposition model and extensions of regression; optimal resource allocation using linear programming, project management and inventory control models.

Course: BS50
Prerequisites: MAB173 and EPB110 (or equivalent)
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB105 ASIAN ECONOMIC DEVELOPMENT

An analysis of economic change in Asia since 1820; the response of Japan, China and South-East Asia to European intrusion and the growth of the international economy; the economic consequences of colonisation; the impact of war; development policies; ASEAN; the rise of the NICs.

Course: BS50
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB106 AUSTRALIAN ECONOMIC HISTORY

The Australian economy and its economic institutions from the 1890's to World War II; analysis of post-war economic growth and fluctuations; arbitration, conciliation and wage fixation, immigration policy, capital inflow, institutional arrangements; Australia's links with the international economy; trading agreements; the contribution of manufacturing, agriculture, minerals and energy, labor, investment and technology in historical context; Australia's deteriorating economic performance since the 1970's and the opportunities presented by the development of the Pacific Basin; the future for Australia.

Courses: BS50, ED50, NS48
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB107 BUSINESS ECONOMIC FORECASTING

Review of deterministic forecasting models; properties of stochastic time series; concepts of stationarity and the autocorrelation function; identification of autoregressive, moving average and ARIMA models; diagnostic checking to determine model adequacy; forecasting and adaptive forecasting; seasonal forecasting models and their application.

Course: BS50 **Prerequisite:** EPB110
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB108 BUSINESS IN ASIA

The business and cultural environments of Japan, China, the NICs and ASEAN; the operation and management of the major Asian economies; social and institutional foundations of the economies concerned; interaction between Asia and Australia.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB109 BUSINESS METHODOLOGY

The concepts of basic statistical methods and their applications in business; descriptive statistics, probability distributions; inferential statistics; correlation and regression.

Courses: BS50, IF56

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: EPB110

■ EPB110 BUSINESS STATISTICS

Sources of data; descriptive statistics; probability concepts; discrete and continuous distributions; statistical inference for 1, 2 and 3 or more population comparisons of parameters; simple regression and correlation; use of the statgraphics package.

Course: BS50, IF37

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: EPB109

■ EPB111 COMPARATIVE ECONOMIC SYSTEMS

The study of comparative economic systems; methods of comparison; structural dimensions as systemic factors; socio-political settings and economic systems; capitalism and its critics; socialist planning and administrative decentralisation; socialist planning and manipulative decentralisation; the role of the state in the market economy; failure of soviet planning; socialist economic reforms; transition to a market economy; structural change and economic development.

Courses: BS50, ED50

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB112 CRITICAL ANALYSIS

The anatomy of valid argument in the social sciences, argument analysis from premise to conclusion; examination of causes, fallacies in argument to foster a critical stance; application of the fundamentals of reasoning to organisation principles; rule making issues and the enforcement problem; strategies for change; dealing with clients; responding to rhetoric.

Courses: BS50, NS48

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB114 ECONOMIC DEVELOPMENT

The economics of development of the Third World; examination and application of economic principles, alternative theories and policies to the understanding of significant development problems such as poverty, inequality, unemployment, debt, rural stagnation, economic stabilisation, resource depletion and sustainability. As these problems of development or underdevelopment are rooted in social and institutional causes as well as economic causes, the economic principles are combined with institutional and structural analyses to provide a better understanding of the problems.

Courses: BS50, ED50

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB115 ECONOMIC MODEL BUILDING

Model specification and theory formulation; investigating the model characteristics and the underlying assumptions of convexity, concavity and regularity; theoretical appraisal of single and simultaneous equation model building and audit usefulness in pacifying and solving economic issues and problems.

Course: BS50

Prerequisites: EPB104, EPB140 & EPB150, or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB116 ECONOMIC PRINCIPLES 1

The economic problem and its basis in scarcity; contemporary Australian microeconomics institutions; aspects of market demand, supply and elasticity; costing principles; profit maximisation; Australian market structure; price and output decisions in different market types; relevance of microeconomics for the macro economy; economic institutions in the macro economy; measurement of GDP, recession and prosperity; income determination and distribution; role of the Reserve Bank; managing the external economy; integrated monetary and fiscal policies and aspects of the current economic debate.

Courses: BS50, IF56, IT20, PU48

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: EPB140 & EPB150

■ EPB117 ECONOMICS OF INDUSTRY

An analysis of: a selection of industrial structures; measures and determinants of industry concentration, market concentration and consumer surplus; partial equilibrium market power and concentration; pricing policies for oligopolists and monopolistically competitive firms; entry-deterrence pricing; issues in Australian industry policy – the Trade Practices Act and Price Surveillance Authority effectiveness.

Courses: BS50, BS53

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB120 EUROPEAN ECONOMIC HISTORY

The emergence and spread of industry; Europe's involvement with the world economy; international movements of capital and technology; developments in manufacturing; agriculture; minerals and energy.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB121 EUROPEAN INTEGRATION

The political economy of European integration in the post-war era; the influence of major European economies on the integration process; the institutional framework; emphasis on current issues, Eastern Europe post-1992, the global economy and implications for Australia.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB124 GOVERNMENT

Government in the national and international context; political concepts and principles, models of government, Westminster and presidential systems; federalism and constitutionalism; judicial review and the High Court; political parties and elections; public service and public enterprise; intergovernmental relations; pressure groups and the trend to corporatism; international influences on government policy.

Courses: BS50, IF52, IF54, IS43, IT20, LW31, NS48

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB125 GOVERNMENT & BUSINESS

The political context of development: a review of major trends in Australian government policies towards business; ideology and government-business relationships: liberalism, socialism and their contemporary derivatives; intergovernmental relations and business policy; the regulatory framework; the big government debate; interest representation: interest groups, political parties and processes; the trend to corporatism; taxation

and welfare policies and business. Case studies are used to examine political processes and debates in business policy.

Course: BS50 **Prerequisites:** EPB124 or HUB686
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB127 HISTORY OF ECONOMIC THOUGHT

Adam Smith and economic development; Malthus and the population problem; the magnificent dynamics of David Ricardo; the problem of value; Smith, Ricardo, Marx and the marginal revolution; utopian socialists and the problem of alternative organisation and industry; Marx and the critique of capitalism; planning versus the market; Lange versus Mises; Schumpeter on economic development; Rae, Veblen and Gailbraith and consumerism.

Course: BS50

Prerequisites: EPB140 & EPB150 or EPN102 or EPB172

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB130 INTERNATIONAL ECONOMICS

Theories of trade; balance of payments; Australia's export dilemma; foreign investment in Australia; GATT; OECD; commodity agreements; tariff and other barriers to trade; the spot and forward FX markets; the national debt; Keynesian, monetary and portfolio balance models of the open economy; the EC; ASEAN; international monetary arrangements; world capital markets.

Course: BS50 **Prerequisites:** EPB142, EPB152
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB131 INTERNATIONAL POLITICS & BUSINESS

Australian business exists within a vitally important international environment whose structure, especially as regards access to various national markets, is particularly determined by national governments and a range of international agreements entered into by those governments. This unit examines the international political system and its impact upon business; the major actors in the system, with an emphasis upon the bilateral and multilateral agreements of major impact for Australian business; security, production, finance, transport, trade, energy, and transnational organisations; the place of Australia in the system; regions of central interest to Australian business.

Courses: BS50, NS48

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB132 INTERNATIONAL TRADE & FINANCE

Surveys international trade and finance with an emphasis on current economic policy issues; the theories of trade and the bases, direction, volume and terms of trade; trade policy and economic welfare; tariffs and trade; GATT; industry policies; economic integration: EC, NAFTA, APEC, ASEAN; balance of payments; alternative exchange rate regimes; foreign exchange markets and risk management using futures and options; Eurocurrency markets; international money reform. This unit is not available to students undertaking the Economics primary major.

Courses: BS50, ED50

Prerequisites: EPB140 & EPB150 or EPB172

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB133 GLOBALISATION & WORLD BUSINESS

Examines the international, economic, financial and business environment and analyses the impact of globalisation on Australia's economy and its business firms; measures to improve competitiveness, trade blocs, global business strategies, technological change,

conflict in product and export markets; Europe/North American/Asian economic relations.

Course: BS50, IF56

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB134 LABOUR ECONOMICS

This unit applies analytical tools acquired from the preceding units to investigate specific market applications both at the micro and macro levels. Topics include: the demand and supply of labour, investment in human capital; market structures and their effect on equilibrium wage levels; job search; discrimination; collective bargaining; minimum wages; enterprise bargaining; unemployment; inflation; the Phillips Curve in Australia.

Course: BS50 **Prerequisites:** EPB154, EPB142

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB135 LOCAL GOVERNMENT

The nature and constitutional status of local government in Queensland; the evolution of local government legislation; community of interest concepts; determination of external boundaries; local government electoral systems in Queensland; public participation and policy formulation; professionals in local government; administrative issues; functions, the general charter, personnel resources; budgeting and finance; local government and federalism; greater local government; City of Brisbane; regional administration; local government in the UK; corporatism in local government; the local Government Commissioner and local government legislation.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB136 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE 1

The local authority, its constitution, committees; the Department of Housing and local government, and powers of central government; by-laws: procedure, content, and enforcement; elections and electoral procedures; the finances of the local authority; planning schemes, land use controls, procedures; planning and the Environment Court; subdivision of land, building units title and group title, artificial lakes, canals; environmental controls, types and powers, Environmental Impact Statement (EIS); the role of the local authority; Health, the Health Act and regulations; the standard bylaws (buildings, water supply and sewerage) and flammable liquids regulations; local authority meeting agenda and minutes; the Local Government Association of Queensland; recent legislative action and possible future legislation.

Course: BS50

Credit Points: 12 **Prerequisite:** EPB135

■ EPB137 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE 2

A review of the Local Government Act; miscellaneous powers and duties of local authorities; Brisbane City Council: constitutions, acts, ordinances, City of Brisbane Town Planning Act; land acquisition, and compensation; flood mitigation and land use controls in flood prone areas; town planning, dam catchment areas, the North Pine Dam study; town planning and land subdivision research project; planning and Environment Court decisions; sources of funds and financial administration; grants; commissions and the concept of fiscal equalisation; relationships between local authorities: Brisbane and area Water Board; relationships with State and Federal governments; consideration of selected issues based on Local Government Conference motions.

Courses: BS50, ED50

Credit Points: 12 **Prerequisite:** EPB136

■ EPB140 MACROECONOMICS

Macroeconomics is that part of economics primarily concerned with the relationships between broad economic aggregates. The most important of these include the level of GDP, aggregate expenditure and saving, the level of employment, the quantity of money, the average price level, and the balance of payments. The aim of this unit is to define and analyse the relationships between these aggregates, and their impact upon the national economy. The unit examines the problems associated with inflation, unemployment and the balance of payments in the context of the Australian economy; the role of the government and the central bank discussed within the framework of an income-expenditure model; international trade and capital flows.

Courses: BS50, ED50, IF31, IF37, IF52, IF54, IS43, IT20, NS48, PU48

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: EPB116, EPB172

■ EPB141 MACROECONOMIC POLICY

Recent experience with monetary and fiscal policy and the regulation of the labour market, analysing their effect on unemployment, inflation, balance of payments, foreign exchanges and international trade, consumption, savings and investment.

Course: BS50 **Prerequisite:** EPB142
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB142 MACROECONOMIC THEORY

The IS-LM model in a closed and open economy; theories of consumption, investment and money; issues relating to aggregate supply; problems of unemployment, inflation, the balance of payments and economic growth; the effects of monetary and fiscal policies and supply-side economics.

Course: BS50 **Prerequisites:** EPB140 or EPN102 or EPB172
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB143 MANAGEMENT SCIENCE A (INFO TECH)

The major behavioural objectives are to introduce students to important models of operations research; students are made aware of how these models are used in accounting and/or management decision-making situations; students become familiar with solving problems through their own calculations and the use of a computer; students gain an appreciation of the strengths and weaknesses of the models.

Course: BS50 **Credit Points:** 9 **Contact Hours:** 2 per week

■ EPB144 MATHEMATICAL ECONOMIC APPLICATIONS

Differential calculus; rules of differentiation; comparative statistics; implicit function theorem with applications to market equilibrium models; classical optimisation; Lagrangian method with equality constraints; Kuhn Tucker's method with inequality constraints; second order conditions for optimisation with Hessian determinants; economic dynamics and integral calculus: differential equations and difference equations with applications to growth and trade cycles.

Course: BS50 **Prerequisite:** MAB173
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB150 MICROECONOMICS

The nature of the economic problem and the economic way of thinking; the theory of consumer behaviour, the nature of demand, preference and indifference theory; the nature of supply, the price mechanism and the operation of the market; short and long run costs; profit

maximisation, market structure, factor markets and market failure.

Courses: BS50, ED50, IF31, IF37, IF52, IF54, IS43, IT20, PU48

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: EPB116, EPB172

■ EPB151 MICROECONOMIC POLICY

A methodological framework based on the tenets of welfare economics allowing the student to assess microeconomic policy in action in both the public and private sectors. Topics include: efficient market outcomes, market failure, the role of the government, public goods, agriculture policy, industry policy, externalities and the environment.

Course: BS50 **Prerequisite:** EPB152
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB152 MICROECONOMIC THEORY

The theory of consumer demand showing the dual relationship between preference and demand theory; the concept of elasticity and demand analysis; the theory of the firm through extensions into production and cost theory. Monopoly and competitive pricing behaviour.

Course: BS50 **Prerequisites:** EPB150 or EPN102 or EPB172
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB153 MONETARY THEORY & POLICY

The historical evolution of contemporary monetary theories; the role of money in affecting output, inflation and the balance of payments; recent approaches to monetary policy in the Australian context; and the role of the Reserve Bank in interpreting theory and giving effect to policy.

Course: BS50 **Prerequisites:** EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB154 NATIONAL GOVERNMENT

The philosophical foundations, trends and reform processes across the whole spectrum of national government in Australia. Topics include: political theories and models; their relevance for Australian national government; constitutional framework: judicial review and division of powers; legislative processes: the contemporary committee system, scrutiny mechanisms; electoral processes: voting behaviour; public policy making; the budget process; public sector reforms; devolution of responsibility, the goals of improved efficiency, accountability, equity; inter-governmental relations, fiscal federalism, cooperative federalism; politics of structural reform.

Course: BS50 **Prerequisite:** EPB124
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB155 POLICY & PROGRAM EVALUATION

The process and practice of policy and program evaluation in the public sector; the nature of evaluation and techniques; evaluations of selected policies and programs. The aim is to develop a critical appreciation of the strengths and weaknesses of evaluation as an integral part of the policy process.

Course: BS50 **Prerequisite:** EPB159
Credit Points: 12 **Contact Hours:** 3 per week

■ EPB156 POLITICAL & ADMINISTRATIVE ANALYSIS

Political theory and practice: conceptualising the problems; the liberal tradition: neo-liberalism, conservatism, liberalism and their relevance for past and present political systems; reformist and radical traditions: totalitarianism, communism, socialism and social democ-

racy; relevance for past and present political systems; theories of power and participation: Lukes, Lindblom, Pateman; case studies; theories of the liberal-democratic state: liberalism, freedom and equality, Marxism and the capitalist state, theories of the liberal-democratic state: the public choice approach; corporatism and democracy: initiatives, possibilities and problems; state power and democracy; re-evaluation of basic concepts.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB157 PUBLIC ENTERPRISE

Public and private enterprise: a descriptive and comparative perspective; the extent and socio-economic significance of public enterprises; the development of public enterprise; policy and planning in public enterprise; control systems and problems; personnel policies and problems; financial policies and practices; assessing the performance of public enterprise: models and criteria; privatisation and the Commonwealth; State Government and privatisation; the future of state intervention.

Course: BS50

Prerequisites: EPB124 or HUB686 or EPN101

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB158 PUBLIC FINANCE

Economic analysis of taxation and government expenditure. Analysis of alternative taxation strategies from a microeconomic point of view, focussing upon equity and efficiency. Examination of properties of goods and services tax, progressive versus proportional income tax, and other tax options. Economic criteria for assessing the appropriateness of public (as opposed to private) provision of goods and services, or public subsidisation. Government budgeting, size of the public sector, and role of public debt.

Course: BS50

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB159 PUBLIC POLICY

Models of policy; types and uses of models; cyclic and sequential models; policy formulation; issue identification and agendas: adoption; legitimisation and succession; policy implementation; determinants of policy; economic and political; policy theory.

Course: BS50

Prerequisites: EPB100 or, for non public admin students, 8 units including introductory government or politics unit

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB160 PUBLIC SECTOR ECONOMICS

The reasons for government intervention in the economy; the ways in which the effectiveness of this intervention may be measured. Topics include: the competing goals of efficiency and equity; theories of first-best and second-best; the importance of externalities; the public goods controversy; privatisation, de-regulation and re-regulation.

Course: BS50

Prerequisite: EPB152

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB162 REFORM & THE PUBLIC SECTOR

The development of the existing body of law, rules and regulations governing accountability; efficiency and effectiveness in the public sector through all administrative processes and levels of government, as well as the various mechanisms available for the purpose of review. The need for reform and review from early developments in administrative and political history

through to contemporary developments.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB163 RESEARCH & SURVEY METHODS

This unit deals with data (primary and secondary); the gathering of data via surveys, the understanding of data through the study of statistics and the analysis of data. Australian statistical information; demographic processes; the presentation of quantitative as well as qualitative data; questionnaire construction; how to conduct surveys; sampling design; sample accuracy; sample size; confidence intervals; hypothesis testing plus an introduction to correlation, regression and time series analysis. Computer work involves SPSS.

Courses: BS50, ED50, PU48

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB164 SPATIAL & REGIONAL ECONOMICS

Location theories; theories of growth and development over space; the role of cities; regional features, problems; strengths; spatial networks including city systems; regional stability and volatility.

Course: BS50

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB165 SPECIAL TOPIC – ECONOMICS

This unit provides the opportunity for the student to examine in detail a specific current economic policy issue. The nature of the unit varies from year to year depending upon policy questions and the interests of staff. Contact the Subject Area Co-ordinator of Economics and Public Policy for further details. In Semester 1, 1995 this unit will be **Environmental Economics and Policy** which provides an introduction to the foundations of environmental and natural resource economics, and examines the increasingly important role of economics in the formulation and implementation of environmental policy. Topics include: sustainable development, market failure, pollution and depletion of natural resources and analysis of environmental policy.

Prerequisites: EPB150 or EPB140 or EPB116.

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB166 SPECIAL TOPIC – PUBLIC POLICY

This unit helps the student apply in detail the modes of analysis developed in the core units to specific policy areas; their immediate relevance can be demonstrated and a thorough understanding of a policy area gained.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB167 STATE GOVERNMENT

State Government institutions, politics and public policy processes; comparison of State Governments around Australia with respect to constitutions, parliaments, executive government, political parties, interest groups, policy processes, elections and electoral systems; Queensland political culture; the public service; commissions of accountability and various public policy issues.

Course: BS50

Prerequisite: EPB124

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB168 TRANSPORT & COMMUNICATION ECONOMICS

The application of microeconomic principles to transport and communication; location decision, demand, costs, pricing, investment principles, regulation, issues and policy.

Course: BS50

Prerequisites: EPB140 & EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB169 ECONOMICS OF INFORMATION

Information as a commodity; the demand for information; the economics of the production of information; the costs of information; the cost, pricing and charging out of information within organisations; the market supply of information; information technology and the supply curve; the structure of the information industry; information and industry concentration; public good characteristics of information; government intervention and economic impacts.

Course: BS50

Credit Points: 9 **Contact Hours:** 2 per week

■ EPB171 ECONOMIC ANALYSIS & POLICY

Theoretical constructs of welfare economics and cost-benefit analysis; economic rationales for government policy in major areas including: the environment; resource depletion; public investment; taxation; federal fiscal relations; education finance; income distribution; industry.

Course: ED50

Prerequisites: EPB140 and EPB150 or EPB172 or EPN102

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: EPB151, EPB152

■ EPB172 ECONOMIC PRINCIPLES 2

Market demand and supply; fundamental principles of consumer and producer behaviour; market structures; developments in microeconomics; capital and labour factor markets; market failure and reform; the national accounts; aggregate product markets; the multiplier; macroeconomic controversies; control of the macroeconomy; the balance of payments; the open economy and economic growth.

Courses: BS50, IF53, NS48

Prerequisites: EPB116 or EPB106

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: EPB140 & EPB150

■ EPB173 TECHNOLOGY DEVELOPMENT & INTERNATIONAL BUSINESS

The role of technological development as a central determinant of the economic performance of nations and regions, and the commercial performance of firms.

Course: BS50

Prerequisites: 96 credit points of undergraduate study

Credit Points: 12 **Contact Hours:** 3 per week

■ EPB174 SPECIAL TOPIC – INTERNATIONAL BUSINESS

This unit provides the opportunity for the student to study in detail a specific policy issue in international business. The nature of the unit varies from year to year depending upon current policy issues and the interests of staff. Contact the Subject Area Co-ordinator of Economics and Public Policy for further details. In Semester 1, 1995 this unit will be **China and the World Economy** which provides students with an understanding of the Chinese economy, given China's emerging role within the Asian and World economic context. It demonstrates how a centrally-planned economy can transform into a market economy as compared to the former East-European countries, its reform measures and the problems it encounters. It also provide students with a knowledge of doing business with China.

Prerequisites: EPB140.

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN101 GOVERNMENT-BUSINESS RELATIONS

The relationship between government and business, especially in Australia; the historical development of the relationships that exist between the private and public sectors and of the impact that the policy decision of each has on the operations of the other. Case studies are used to explore these relationships and contemporary trends.

Courses: BS70, BS81, BS78

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN102 MANAGERIAL ECONOMICS

Managerial decision making in an economic environment; an introduction to economics, demand analysis, cost analysis, market strategy and the macroeconomic environment; problems of resource allocation at the firm, in industry and the economy; completion of an industry study by each student, and an analysis of the Commonwealth Budget strategy.

Courses: BS78, BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN104 POLICY ANALYSIS

A central aim of the program is to develop skills in the analysis of policy content and policy process; it provides a basic methodological framework for the systematic development of those skills with two related objectives: (a) to examine a range of models of public policy processes with a view to determining their validity and utility, (b) to develop a capacity for policy analysis, utilising a variety of conceptual frameworks. Topics include: policy design, formation and implementation and theories of policy.

Courses: BS62, BS83, IF64

Prerequisites: An undergraduate degree

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN105 STATISTICAL METHODS

Statistics is the study of the procedures for collecting, analysing and interpreting the data required for effective decision making; the basic concepts and techniques of statistical analysis, with particular reference to their application in management; campus computers may be used; topics include: graphs, charts, descriptive statistics, probability, sampling methods, analysis of sample results and regression and correlation.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN106 PROGRAM MANAGEMENT

Understanding of program management and evaluation in the public sector, with an emphasis on skills development; theory and methodology of evaluation research; qualitative and quantitative tools and the application of these to a public sector program.

Courses: BS62, BS83, IF64

Prerequisites: An undergraduate degree

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN108 DEVELOPMENTS IN MICROECONOMIC THEORIES

Discussion of refinements in microeconomic theory such as hedonic pricing models, invalid preference theory, contestable market theory, theories of regulation, strategic entry deterrence, networks and vertical integration theories, and public utility theories are considered in this unit. It explores refinements in microeconomic theory which have contemporary use in the development of government policies in areas such as the environment, energy, public enterprises, industrial development, transport and telecommunications.

Courses: BS62, BS83, IF64

Prerequisites: An undergraduate degree or major in economics.

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN109 INTERNATIONAL BUSINESS POLICY & COMPETITIVE STRATEGIES

This unit expands and builds upon the theoretical and conceptual basis of analytical decision making in International Business Policy. Emphasises recent developments in competitive and anti-competitive trade practices at a business, cultural and negotiating level. Topics include: trade policies in relation to analysis of product cycles, technology based trade services, tourism and agribusiness; contemporary issues such as structural adjustment policies, innovation and entrepreneurship, global strategic objectives, business plans and market entry strategies.

Courses: BS62, BS83, IF64

Prerequisites: Undergraduate degree or major in international business

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN110 REGIONAL STUDY

Regional understanding is crucial to international success. Analysis of a region's economic, business and government environment, its key institutions and trade and investment relation with other countries, particularly Australia. These studies are chosen from the Asia Pacific and/or the European global arena. The topics covered include: international economic relations within the region, between the region and Australia, industry and technology policies. Other topics include: commercial policy and institution building, business policy culture and communication and corporate government relations.

Courses: BS62, BS83, IF64

Prerequisites: Undergraduate degree or major in international business

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN111 CONTEMPORARY MACROECONOMIC THEORIES

This unit introduces students to the latest theoretical developments in the field of macroeconomics using both qualitative and quantitative approaches. It places these theories in their historical, philosophical and societal contexts. This unit looks at New classical and New Keynesian theoretical approaches to a range of issues. These include: expectation theories, supply side economics, theories of labour markets, monetary theories and growth theories (including the role of international trade). Also differences in the theoretical foundations of macroeconomic policies employed in different countries are highlighted.

Courses: BS62, BS83, IF64

Prerequisites: Undergraduate economics degree or economics major

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN112 MULTIVARIATE METHODS

This unit is intended to provide students with the skills needed to perform appropriate analysis of data. It focuses upon some of the more important multivariate methods, of which multiple regression is but a part. Other multivariate techniques covered include discriminant analysis, principal component analysis and factor analysis. The link between appropriate multivariate statistics and a research question is thoroughly investigated.

Courses: BS60, BS61, BS62, BS83

Prerequisites: EPB110 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN113 AUSTRALIAN TRADE & FOREIGN POLICY

The development of an understanding of Australian trade and foreign policy. It focuses upon policy structure, content and processes, with particular attention given to both the domestic and international contexts of Australia's trade and foreign policy.

Courses: BS30, BS62, BS78, BS81, BS83, IF64

Prerequisites: Undergraduate degree or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN114 INDUSTRY POLICY

An examination of the question of how government policy is able to support industry development. It applies different approaches to policy making and includes the application of principles of welfare economics to industry policy. Several types of market structures are analysed which require different approaches to government intervention. Account is taken of both the Australian and the international contexts. In the light of the different market structures and policy aims, the unit analyses the effectiveness of support to particular industries by such means as protection and subsidies in foreign trade, tax incentives, infrastructure support and regulatory reforms.

Courses: BS62, BS83, IF64

Prerequisites: Undergraduate degree

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN115 ENVIRONMENTAL ECONOMICS & POLICY

Environmental economics is concerned with the interaction between economic systems and the natural environment. Fundamental are the issues of sustainable economic development, the economic cost to future generations of potential degradation of the environment, the proper definition of property rights, the economics of pollution and the depletion of non-renewable resource stocks. This unit provides a comprehensive analysis and critique of the role played by environmental economics in the formulation of contemporary environmental policy in Australia and globally.

Courses: BS62, BS81, BS83, IF64

Prerequisites: Undergraduate degree

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN116 SPECIAL TOPIC – ECONOMICS, PUBLIC POLICY & INTERNATIONAL BUSINESS

This unit provides the opportunity to study in detail, at a postgraduate level, a specific current economic, public policy and/or international business issues. The nature of the unit varies from year to year depending upon contemporary issues and the interests of staff. Contact the Subject Area Coordinator School of Economics and Public Policy for further information.

Semester 1, 1995 – TBA

Semester 2, 1995 – Government Budgeting & Finance

An understanding of the budgetary and financial context in which public sector agencies, and individual public sector managers operate. It examines the strategic objectives which underpin broad Government financial and budgetary policies, and the way in which budgetary constraints and financial management requirements affect the development of new policies and the management of existing programs. Topics covered include broad expenditure, revenue and debt policies; institutions, processing and politics of public sector budgeting; financial relations between public trading enterprises and government; the use of contracting mechanisms within the public sector.

Courses: BS78, BS81

Prerequisites: An undergraduate degree

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN117 ECONOMICS & PUBLIC POLICY

The relationship between economics, economists and public policy; currently influential bodies of economic theory, and their application in the public policy environment; the role of economists in the policy process. Topics addressed cover both the macro and micro dimensions of economic policy and include: the balance of payments and foreign debt; employment and unemployment; taxation; privatisation; health policy; social and welfare policy; environmental policy.

Courses: BS62, BS78, BS81, BS83, IF64

Prerequisites: Undergraduate degree or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN118 RESEARCH SEMINAR

Quality in policy research requires sound understanding of appropriate research methodologies, their design and implementation. This unit is intended to help provide the student with that understanding, tailored to the specific needs of individual research dissertations. It provides a particular focus upon methods and techniques relevant to evaluation research.

Courses: BS62, BS78, BS81, BS83, IF64

Credit Points: 12 **Contact Hours:** 3 per week

■ EPN119 SCIENCE & TECHNOLOGY POLICY

This course assists students in understanding Australian and technology policy. It is structured into two parts. The first examines policy structures and processes whilst the second part examines science and technology policy issues which are sector specific. The latter part of this course has a particular focus on policy and the commercialisation of technology although issues relevant to other sectors are also addressed.

Courses: BS62, BS78, BS81, BS83, IF64

Prerequisites: Undergraduate degree or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ EPP101 ECONOMIC ANALYSIS

Australia's international trading performance relative to other industrialised nations; the potential economic impact on quality control systems on primary, secondary and tertiary sections of Australian industry; economics of the firm and the quality factor, quality as a determinant of demand, demand elasticity, goods attribute theory; tools for incorporating quality into investment decisions; opportunity and marginal costs; x inefficiency; increased profitability resulting from quality initiatives.

Courses: BS77, BS83, IF66, IF69

Credit Points: 6 **Contact Hours:** 3 per week

■ ESA310 GEOLOGY

An introduction to geological materials, emphasising chemical concepts and processes. Aspects studied include the origin and constitution of the earth, introductory mineralogy, igneous, sedimentary, and metamorphic petrology, study of physical and structural geology, geomorphology, stratigraphy, and economic geology.

Courses: SC10, SC12

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB122 PHYSICAL GEOLOGY

Basic geologic principles, physical geology, geomorphology, weathering, erosion, river and coastal environments, groundwater, deserts and aeolian processes. Origin and composition of the earth and the solar system; mineralogy; classification and origin of igneous, metamorphic and sedimentary rocks; structural geology; plate tectonics; economic geology. Practical work includes examination and identification of major rock-forming minerals, economic minerals, and rocks;

structural exercises; interpretation of topographic and geologic maps and aerial photographs. Field excursions to local areas of geological interest.

Courses: ED50, SC30

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB222 HISTORICAL GEOLOGY

Geologic history of the earth; interpretation of past geologic events emphasising the geologic development of Australia, and the evolution of life; principles of stratigraphy; radiometric dating; palaeontology and biostratigraphy. Practical work includes stratigraphic interpretations, study of fossils, and map interpretation. Field excursions to local areas of interest.

Courses: ED50, SC30

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB229 GEOLOGY FOR THE BUILT ENVIRONMENT

Basic principles and theories of geology, emphasising the way in which mineralogy and petrology, geologic structures, geomorphology, and groundwater interact with, and are related to, surveying, and engineering design and construction. The engineering properties of rock and soil, and the effect of geologic hazards on the built environment; case histories on the relevance of geology to the surveyor's and civil engineer's workplace.

Courses: CE42, IF52, PS47

Credit Points: 6 **Contact Hours:** 2 per week

■ ESB312 MINERALOGY

Introductory crystallography; fundamentals of crystal chemistry, mineral stability and reactions; crystallisation, growth and habit; the geologic context of minerals; classification of minerals; systematic treatment of the physical, chemical and structural properties of minerals; techniques of mineral analysis; theory and identification of minerals in transmitted light; the introduction to mineralogy with theory of reflected light; optical properties of ore minerals and identification of minerals in thin section, polished section, and grain mounts.

Courses: ED50, SC30

Prerequisite: ESB122

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB332 GEOPHYSICS

Physical properties of the earth; geophysical methods including: seismic, gravity, magnetic, radiometric, resistivity, induced polarisation, electromagnetic; electrical properties of rocks and minerals; natural electrical sources. The unit covers both solid earth and exploration aspects.

Courses: ED50, SC30

Prerequisites: One unit of maths or physics

Co-requisite: ESB392

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB342 STRUCTURAL GEOLOGY AND GEOMECHANICS

The geometry of map-scale structures. Principles of deformation: strain and rigid motion, measurements of strain in deformed rocks, deformation paths, strain rate, homogeneous and non-homogeneous strain, normal and shear stress, Mohr diagram. Deformation mechanisms: elastic and thermal expansion, plastic deformation within crystals, flow by pressure solution, compaction, stress-strain relations. Fracture and brittle behaviour: the Mohr envelope, role of cracks and fluid in the fracture of rocks, fracture experiments, effects of pre-existing fractures, fracture of anisotropic rocks, brittle-plastic transition. Classes of structures: joints – origin, surface morphology and relation to other structures; faults – normal, strike-slip, thrust and de-

tachment faults; folds – description and classification, kink bands, chevron folds, boudinage, mechanisms and mechanics. Practical work includes a series of assignments of increasing complexity, and field work involves mapping deformed terrain.

Courses: ED50, SC30

Prerequisites: ESB122, ESB222

Co-requisites: ESB392

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB392 FIELD TECHNIQUES AND STUDIES

Methods used in the accumulation, analysis and interpretation of geological field data. Geological mapping, sampling and presentation of reports. This unit includes an extended excursion (five days or more), during which students are required (individually or in groups) to map the geology of an assigned area. During the field excursion, students are required to produce a geological map, together with supporting explanatory notes. Other weekend excursions to areas of geological interest may be included.

Courses: ED50, SC30

Prerequisites: ESB122, ESB222

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB432 GEOMORPHOLOGY AND SEDIMENTARY GEOLOGY

Introduction to geomorphic systems, processes, and landforms; regolith, weathering, effects of climate and subsidence; drainage systems and river processes; volcanic terrains, volcanic hazards, and volcanism monitoring; type and distribution of marine sediments; the sedimentary cycle and sediment transport; sedimentary structures, sediment textures, grain size analysis; depositional environments; fossiliferous sediments and microfossils; an introduction to biostratigraphy and basin analysis.

Courses: ED50, SC30

Prerequisites: ESB122, ESB222, plus one unit of first year chemistry

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB452 GEOCHEMISTRY

An introduction to the chemistry of the earth as a whole and of its component parts. Origin and distribution of the elements within the universe, the solar system, and the earth. Elemental associations, primary differentiation, and geochemical classification. Crystal chemistry, nature of solids, bonding forces, covalent and ionic radii, crystal structures, unit cell composition, solid solution. Thermodynamics, including equilibrium and equilibrium constants, chemical potential, fugacity, activity, the phase rule and phase diagrams. Isotope geochemistry. The geochemistry of aqueous environments, water chemistry, properties of water, solutions and solubilities, pH, oxidation and reduction, water reactions. Presentation of geochemical data. Practical aspects include experience in geochemical methodology, from sample collection in the field through analytical methods appropriate to geology (ICP, electron microprobe, XRD, AAS).

Courses: ED50, SC30

Prerequisites: ESB312, CHB182, CHB282

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB462 LITHOLOGY

Optical mineralogy; the description and classification of igneous, metamorphic, and sedimentary rocks in thin section and hand specimen; the identification, classification, and interpretation of textures. A field study of one-day's duration is required.

Courses: ED50, SC30

Prerequisite: ESB312

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB472 MINERAL DEPOSITS AND MINE GEOLOGY

Ore concentration mechanisms according to classical and modern ore genesis theory. The different types of economic materials are then studied under the following headings: mineralogy, genesis, use and value, mining methods, beneficiation, major overseas deposits, Australian deposits. The role of the mine geologist. Practical work includes studies of economic minerals, and exercises in interpretation of mine data.

Courses: ED50, SC30

Prerequisite: ESB312

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB502 PACIFIC MARINE GEOLOGY

The regional geology of the Pacific Ocean and in particular the South West Pacific, including its tectonic framework, island arc magmatism and types of volcanism. Deep and shallow marine and on-shore examples are considered. Broad aspects of physical and chemical oceanography (eg. circulation and climate) including features such as the El Nino and Greenhouse effects. Resources of the region: ore deposits related to environment and formation with terrestrial examples; marine deposits; non-metalliferous and engineering materials; conventional and alternative energy sources. Types and chemistry of marine sediments (deep and shallow). Specific problems related to engineering geology, coastal zone protection and hydrogeology. Interaction of man with the Pacific environment.

Course: ED50

Prerequisites: ESB392 and at least one of ESB342, ESB422, ESB442, ESB452, or ESB462

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB512 IGNEOUS AND METAMORPHIC PETROLOGY

The origin, formation, and geologic history of igneous and metamorphic rocks as determined from field and laboratory studies of occurrences, mineral assemblages, rock compositions, and textures. Interpretation of rock and mineral compositional diagrams; application of experimental work and detailed computer modelling of petrochemical processes. Practical work examines the petrography and geochemistry of igneous and metamorphic suites. Field studies are an essential component of the unit.

Courses: ED50, SC30

Prerequisite: ESB462

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB522 HYDROGEOLOGY

A broad-based course on groundwater, directed to its occurrence and quality, from both resource and environmental aspects. The hydrological cycle; the origin, occurrence, and movement of groundwater; geology and character of aquifers; the chemistry and quality of groundwater, and their monitoring; exploration methods; drilling and testing methods, and equipment. Practical exercises with pump tests, groundwater flow, material permeability, field testing, chemical analysis, computer software and modelling. Laboratory visits, demonstrations and a field practical, interaction with government departments and private industry.

Courses: ED50, SC30

Prerequisite: ESB432

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB542 ENGINEERING AND ENVIRONMENTAL GEOLOGY

This unit is structured around the inter-related fields of engineering and environmental geology and soil and rock mechanics. The topics studied are those most likely to apply to the work of the engineering or environmental geologist in tropical urban and coastal areas. Topics include investigation techniques and philosophies for the engineering of slopes, coastal structures, dams,

buildings, and subsurface openings; practical investigation methods; the input of geology into urban and coastal developments; the mechanical and chemical properties of soils and rocks; seepage; shear strength; bearing capacity; consolidation theory; stresses and displacements, in-situ stresses; earthquakes and slope stability.

Courses: ED50, SC30

Prerequisites: ESB392 and one of ESB342, ESB422, ESB442 & ESB462

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB582 ORE GENESIS

The formation of ore deposits. A wide variety of deposits are studied with an emphasis on metallic ore deposits, their characteristics, and environments of deposition. Ore forming processes are discussed, together with tectonic perspectives, modern ore formation, and techniques of study of ore deposits.

Courses: ED50, SC30

Prerequisites: ESB472

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB592 GEOLOGICAL FIELD EXCURSIONS

A field excursion conducted during the semester break emphasising geologic mapping skills in lithologically and structurally varied regions. Past excursions have focussed on the Mt Isa region, and have been run in collaboration with the University of Queensland. Lectures/tutorials prior to the excursion review and develop mapping and geologic interpretation techniques. Assessment is based on tutorial exercises completed during the semester, and geologic maps, cross sections, and reports in the field. All work is finalised at the conclusion of the excursion. Students are expected to cover their transport expenses to the field site, as well as accommodation and food costs during the excursion.

Courses: SC30

Prerequisites: ESB342, ESB392, ESB432, ESB512

Credit Points: 12

■ ESB602 GEOLOGICAL INVESTIGATIONS

An introduction to geological research through the development and completion of a research project within a specified area of geology. Students are required to develop, in consultation with an appropriate staff member, a research proposal with specific aims and objectives, relevant methodology, and appropriate background. The research problem must be field-based and include a laboratory component. Lecture/tutorial sessions in information retrieval, writing, and presentation skills. Assessment is based on written and oral reports.

Courses: SC30

Prerequisites: Approval from Head of School.

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB612 EARTH RESOURCES MANAGEMENT

Appreciation of earth resources; their distribution and uses; societal and environmental impacts and future alternatives; economic mineral resources; energy sources; water and soil resources; realities and limits of earth resources; resource management; conservation versus exploration; waste disposal; environmental pollution; future technological developments and their possible effects on earth resources. Management in applied geology, professionalism and ethics together with an introduction to civil and mining law. Mining acts and miner's rights; licensing procedures for prospecting search and exploration; mining leases on crown lands and mining on private land; the enforcement of mining interest; petroleum legislation in Australia; company structure; joint ventures; practical work involves

applications for exploration licences, claims and leases. A field trip may be included.

Course: ED50

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB652 EXPLORATION GEOSCIENCE

Design of mineral exploration programs: target generation, reconnaissance, detailed investigation, evaluation, time and budget schedules, risk factors. Introduction to the theoretical base of exploration geochemistry; main types of geochemical surveys in regional, local, and mine scale exploration; the role of statistics in design and interpretation of exploration geochemical programs; analytical methods in geochemical prospecting; the role of biogeochemistry. Remote sensing in exploration; airborne geophysical surveys, design, acquisition, processing and interpretation leading to the design and operation of follow up ground surveys; assessment of drilling results by geophysical logging and tomography; use of software applications; geophysical case histories.

Courses: SC30, ED50

Prerequisites: ESB332, ESB452, ESB582

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB672 FOSSIL FUEL GEOLOGY

Coal properties, classification, genesis and analysis; hand specimen study and microscopy; hydrocarbon generation from coal and oil shale; coalfield geology and subsurface mapping techniques; basin analysis; coal production and economics. Origin and characteristics of petroleum fluids including: generation, accumulation, and migration through time and space; study of structural and stratigraphic traps and reservoir rock characteristics; application of drilling, logging, and geophysical techniques to quantify these aspects; correlation techniques including seismic stratigraphy; economics of production. Field excursions of short duration as required, together with practical assignments.

Courses: SC30, ED50

Prerequisites: ESB522

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB682 SEDIMENTOLOGY AND BASIN ANALYSIS

Principles of fluid flow, flow regimes, sedimentary processes; facies and sequence models for alluvial, deltaic, estuarine, shoreline, shelf, turbidite, carbonate, lacustrine, and evaporite depositional systems; how these systems respond to accommodation-space changes induced by changes in tectonic, eustatic, and climatic conditions through time; integration of geophysical, geochemical, biostratigraphical, palaeoecological, diagenetic, thermal, and other specialist datasets to the process of basin analysis. Involves compulsory field studies and practical exercises in both modern and ancient sedimentary environments.

Course: SC30

Credit Points: 12 **Contact Hours:** 5 per week

■ ESB700 PROJECT

This unit involves undertaking, in consultation with a supervisor and through interaction with lecturing and technical staff of the School of Geology, a substantial project in an appropriate area of earth science. The unit provides the opportunity for students to identify and solve geological problems logically and creatively. Students are required to relate the project work to published work in the field of study, and adopt the style of Australian Journal of Earth Sciences for the written report. Each project is assessed on the basis of an extensive written report and an oral presentation.

Course: SC60

Credit Points: 48

■ ESB701 GEOLOGY REVIEWS

Within this unit students develop a written discussion of a geological problem or issue that is comparable to the focus of their own research project. Using available published literature, students critically analyse data and conclusions presented by other researchers in order to synthesise a discussion of the geological issue or case. The report focuses on those geological components that justify its selection as a geological review.

Course: SC60

Credit Points: 12

Contact Hours: 3 per week

■ ESB702 COMPLEMENTARY STUDIES

Provides students with skills that allows them to formulate and write a research proposal, to be capable of reading scientific literature with a view of abstracting critical aspects, and to produce reports that are written in a journal format and at a standard that could lead to publication. The unit also addresses philosophical issues such as ethics, professional integrity, and plagiarism, and to provide workshops in practical methods relevant to research in geology. These workshops include: (a) SEM unit; XRD unit; ICP and AAS analysis; (b) computing skills; (c) sample collection and processing; (d) data presentation and geological mapping methods.

Course: SC60

Credit Points: 12

Contact Hours: 2 per week

■ ESB704 ADVANCED STUDIES IN EARTH SCIENCE

Provides a selection of coursework appropriate to fourth level studies in earth science disciplines. The unit has a modular structure that not only accommodates the range of advanced level studies needed to support research projects of individual students but also avoids promoting overspecialisation at the Honours level. From the 4- and 8-credit point modules indicated, students select any combination of modules appropriate to their interests and research project to total 20

Credit Points: (a) Advanced Sedimentology and Stratigraphy [4 credit points]; (b) Advanced Resources Geology [8 cp]; (c) Coastal Zone Hazards [8 cp]; (d) Geochemical systems: magmatic processes [4cp]; (e) Geochemical systems: isotopes, fluids, and phase equilibria [4 cp]; (f) Global Plate Tectonics [8 cp]; (g) Groundwater Geology and Geochemistry [4 cp]; (h) Mineral Exploration Geophysics [4 cp]; (i) Seismic Exploration Geophysics [4 cp].

Course: SC60

Prerequisites: As approved by Honours (Geology) coordinator

Credit Points: 20

■ ESN110 ADVANCED TOPICS IN EARTH SCIENCE 1

This unit facilitates students in developing an advanced understanding of a topic in earth science that is highly relevant to their proposed research. The content in therefore variable and depends on the earth science topic chosen.

Courses: SC80

Credit Points: 12

■ ESN120 ADVANCED TOPICS IN EARTH SCIENCE 2

See ESN110

Courses: SC80

Credit Points: 12

■ ESN130 COMPUTER APPLICATIONS IN EARTH SCIENCE

Examination of up to five computer programs relevant to a particular aspect of earth science operating on a range of systems; readings on the theoretical base for each program; case studies for each application, and

an assessment of the results of the applications.

Courses: SC80

Credit Points: 12

■ ESN140 RESEARCH METHODOLOGY 1

A variety of field and laboratory techniques for the collection of data in a particular earth science discipline; the practical application of these techniques; strategies for assessing their appropriateness for particular problems; the theoretical basis of the research.

Courses: SC80

Credit Points: 12

■ ESN150 RESEARCH METHODOLOGY 2

See ESN140

Courses: SC80

Credit Points: 12

■ ESN160 SEMINARS

Students may present several seminars ranging from a summary of background to a particular topic, to a preliminary thesis presentation.

Courses: SC80

Credit Points: 12

■ ESN170 LITERATURE SURVEY

Develops the detailed background of a student's research topic; extends the student's knowledge into current and relevant literature.

Courses: SC80

Credit Points: 12

■ EST219 ENGINEERING GEOLOGY

The basic principles and theories of geology, emphasising the way in which mineralogy and petrology, geologic structures, geomorphology, and groundwater interact with, and are related to, surveying, and engineering design and construction. The engineering properties of rock and soil, and the effect of geologic hazards on the built environment; case histories on the relevance of geology to the surveyor's and civil engineer's workplace.

Courses: CE21

Credit Points: 7

Contact Hours: 3 per week

■ FNB100 AUSTRALIAN FINANCIAL MARKETS

System efficiency and the intermediation process; term structure of interest rates; the Australian banking and payments system; merchant bank and finance company operations; the operations of the Australian Stock Exchange; financial systems regulation; trading and pricing of money market/capital market securities; the options and futures market.

Course: BS50

Prerequisites: FNB107 or FNB111 or FNN102, EPB140

Credit Points: 12

Contact Hours: 3 per week

■ FNB103 COMPARATIVE FINANCIAL SYSTEMS

Introduction to the operations of important overseas capital markets, regulation and structure.

Course: BS50

Prerequisite: FNB100

Credit Points: 12

Contact Hours: 3 per week

■ FNB104 COMPUTER APPLICATIONS IN FINANCE

Students learn the necessary skills to undertake analysis and applied research in business finance. Topics include: programming and data file manipulation using dBase IV; ordinary least squares regression; SPSS-PC statistical computer software.

Course: BS50

Prerequisites: FNB111, ISB892

Credit Points: 12

Contact Hours: 4 per week

■ FNB105 COMPUTER APPLICATIONS IN MANAGERIAL ACCOUNTING

Consideration of selected managerial accounting areas: master budgeting, cash budgeting, cost estimation, cost allocation, variance analysis, cost-volume-profit

analysis; application of appropriate software tools: spreadsheet software, accounting package, graphics software, statistical analysis software.

Course: BS50

Prerequisite: ISB892

Co-requisite: FNB123

Credit Points: 12

Contact Hours: 4 per week

■ FNB106 COMPUTER APPLICATIONS IN PUBLIC PRACTICE

Use of modern software tools and techniques as applied to finance and commerce; reinforcement of computerised share trading; hardware and software selection process; negotiating contracts involving hardware and software; using and searching on-line public access databases; the components and benefits of modern data communications business products technology in finance and commerce.

Course: BS50

Prerequisite: ISB892

Credit Points: 12

Contact Hours: 4 per week

■ FNB107 CORPORATE FINANCE

An overview of the Australian Financial system; technical tools used in financial decision making; the capital market, short and long term finance; dividend policy; investment decision models.

Courses: BS50, ED50, IF56

Prerequisites: AYB100 or AYB110

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: FNB111

■ FNB111 FINANCE 1

The Australian institutional framework; terminology; uses and pricing of basic instruments; Financial mathematics, NPV, risk and returns, certainty and uncertainty, the CAPM model. Practical asset management, firm valuations, investments and capital budgeting.

Courses: BS50, IF37

Prerequisites: AYB110 or AYB100, EPB150 or EPB116

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: FNB107

■ FNB112 FINANCE 2

Theoretical development of the CAPM model, its practical application and its relationship to efficient market hypothesis. Capital structure, dividends, short term assets, leasing, takeovers, options and futures.

Courses: BS50, IF37

Prerequisite: FNB111

Credit Points: 12

Contact Hours: 4 per week

■ FNB113 FINANCE 3

A study of contemporary finance research; event research; beta estimation; valuation theory; use of finance research tools; anomalies and extension of finance theories; students are required to complete a research project combining theory and practice.

Course: BS50

Prerequisite: FNB112

Credit Points: 12

Contact Hours: 4 per week

■ FNB114 FINANCIAL INSTITUTIONS – LENDING

Finance theory and the lending function; cost of bank funds; the evaluation of retail loans, lending to small business; financial statement analysis; corporate lending and securities; financing international trade; problem loans and credit scoring.

Course: BS50

Prerequisites: FNB107 or FNB111 or FNN102

Credit Points: 12

Contact Hours: 3 per week

■ FNB115 FINANCIAL INSTITUTIONS – MANAGEMENT

Strategic planning and budgeting in a financial institution, performance measurement, risk management in financial institutions, gap management liquidity and

capital adequacy; lending policy and credit risk, service and customer profitability; international banking. The marketing of financial services.

Course: BS50 Prerequisites: FNB111 or FNN102

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: FNB124

■ FNB116 FINANCIAL MANAGEMENT FOR ENGINEERS

Introduction to the theory and practice of financial management in Australia; the nature of business finance and firm objectives; business structures, debt and the organisation of the Australian capital markets; NPV calculations; project evaluation.

Courses: EE43, ME45, ME46

Credit Points: 8

Contact Hours: 2 per week

Incompatible with: FNB125

■ FNB117 FINANCIAL MODELLING

The development of a basic model within an organisational environment; operation of computer modelling languages; analysis and development of forecasting models; specialist financial models; model development as part of the decision support system.

Course: BS50

Prerequisites: FNB111, ISB892

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: AYB101

■ FNB120 INTERNATIONAL FINANCE

Financial management from an international perspective; portfolio theory, the investment decision and the financial decision; International exchange rate determination and parity conditions; International banking, the foreign exchange market, currency futures, forwards, swaps, options, and international trade.

Courses: BS50, IF56

Prerequisites: FNB111 or FNB107

Credit Points: 12

Contact Hours: 4 per week

■ FNB121 ISSUES IN FINANCE

The finance framework; positive versus normative methods; Kuhn's model of progress; the resolution of traditional finance problems; regulation and finance, market failure: the finance solution.

Course: BS50

Prerequisites: FNB111, FNB123

Credit Points: 12

Contact Hours: 4 per week

■ FNB122 MANAGEMENT ACCOUNTING

The nature of management accounting; cost concepts; cost profit volume analysis; relevant costs and special decisions; flexible budgets; responsibility accounting; job and process costing; introduction to finance; financing decisions: equity versus debt, leasing, investment dividends; introduction to financial maths; understanding the financial press.

Course: ED50

Prerequisite: AYB110

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: FNB123

■ FNB123 MANAGERIAL ACCOUNTING 1

Introduction to managerial accounting, the role of the management accountant, and cost concepts; costing systems including actual/normal/standard systems under job and process costing; introduction to budgeting; accounting for the factors of production: materials, labour and overheads; extension of basic costing systems for multiple products and spoilage; direct and absorption costing; cost-volume profit analysis.

Courses: BS50, IF37, IT20

Prerequisite: AYB110

Credit Points: 12

Contact Hours: 4 per week

Incompatible with: FNB122

■ FNB124 MANAGERIAL ACCOUNTING 2

The application of the conceptual framework of the finance paradigm to provide a positive explanation of

managerial accounting; interrelationships between managerial accounting, economics of firms, business finance, regulation, organisation behaviour and computer applications; agency theory responsibility accounting and cost allocation; decision-making and relevant costs; pricing techniques, advertising and transfer pricing; performance evaluation.

Courses: BS50, IF37, IT20 **Prerequisite:** FNB123
Credit Points: 12 **Contact Hours:** 4 per week
Incompatible with: FNB115

■ FNB125 PERSONAL & CORPORATE FINANCE

The Australian financial environment from both a personal and corporate point of view; goals and functions of finance; project evaluation; evaluation and selection of investment projects, management of working capital; leverage; cash forecasting and management; financial statement analysis. This unit is not available to BS50 BBus(Accy) or BBus(B&F) majors.

Course: EE44

Credit Points: 4 **Contact Hours:** 2 per week
Incompatible with: FNB116

■ FNB126 PORTFOLIO & SECURITY ANALYSIS

Management of investment portfolios; diversification; performance management; risk management; advanced theories on option pricing, efficient markets, futures trading (hedging) and asset pricing.

Course: BS50 **Prerequisites:** FNB112 or FNN102
Credit Points: 12 **Contact Hours:** 4 per week

■ FNN100 ADVANCED CAPITAL BUDGETING

Application of the theoretical constructs developed in undergraduate finance units to complex problems in investment appraisal.

Courses: BS70, BS87 **Prerequisite:** FNB112
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN101 FINANCE HONOURS

An advanced coverage of the theory of financial management, building on work done in the undergraduate course with reference to empirical evidence where available; topics include: capital markets, investment decisions, market equilibrium, the capital asset pricing model, arbitrage pricing theory, capital structure, dividend policy, efficient capital markets; provides a theoretical basis allowing for evaluating policy problems in the area of financial management, a prerequisite for further specialisation in this area.

Courses: BS60, BS70, BS81, BS87
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN102 MANAGERIAL FINANCE

Introduction to the world of finance and financial management. Topics include: the finance function, the role of the financial manager; the Australian financial environment; sources of funds; present and future value; time value of money; financial mathematics; cost of funds, the firm investment decision; investment evaluation techniques; cash budgeting; working capital management; capital budgeting; dividend policy and financial structure policy.

Course: BS81, IF64 **Prerequisites:** AYN101, AYN112
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN103 FINANCIAL MODELLING

Modelling as an organisational planning tool; the development and manipulation of databases in order to provide information sources for model building; the use of the modelling concept for solving investment and forecasting problems and analysing performance.

Courses: BS70, BS87

Prerequisites: FNB111, FNB123

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: FNB117

■ FNN104 FINANCIAL RISK MANAGEMENT

An advanced postgraduate finance unit which covers four areas of risk management: portfolio, investment, exchange and insurance. Topics include: portfolio theory, performance evaluation, benchmark problems, hedging, portfolio insurance in the crash of 1987, managing exchange risk, risk reduction, self insurance, new tax rules and superannuation fund performance, interest rate risk, rating agencies, duration, immunisation. Emphasis on empirical research.

Courses: BS70, BS87, IF64

Credit Points: 12 **Contact Hours:** 3 per week

■ FNN105 INTERNATIONAL FINANCE

The theory and practice of international finance; the relationship between domestic and international capital markets, interest rate and exchange rate determination, risk management of foreign exchange, international trade finance, offshore investment, legislation, transfer pricing, accounting and taxation aspects.

Courses: BS70, BS87, IF64

Credit Points: 12 **Contact Hours:** 3 per week

■ FNN106 MANAGERIAL ACCOUNTING HONOURS

Theoretical issues that constitute the foundations of managerial accounting theory and research; an investigation of the rationale and usefulness of managerial accounting; review the research and literature in the areas of strategic management; management control systems; decentralisation and organisational structures; managerial performance measurement; executive performance and compensation; cost estimation and allocation.

Courses: BS60, BS70, BS87 **Prerequisite:** FNB124
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN110 MANAGERIAL ACCOUNTING ISSUES A

Issues associated with decentralisation and responsibility accounting, performance evaluation, cost allocation, budgeting, the new management accounting viewed from the framework of finance economics.

Courses: BS70, BS87 **Prerequisite:** FNB124
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN111 MANAGERIAL ACCOUNTING ISSUES B

The practical managerial accounting issues currently facing contemporary management. Topics include: quality and strategic product development, productivity control, advanced budgeting techniques, program budgeting, and management control systems.

Courses: BS70, BS87 **Prerequisite:** FNB123
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN112 SPECIAL TOPIC – MANAGERIAL ACCOUNTING & FINANCE

Issues of significance in managerial accounting and finance. This unit is offered when required.

Courses: BS70, BS87
Credit Points: 12 **Contact Hours:** 3 per week

■ FNN113 MANAGERIAL ACCOUNTING FOR ENGINEERS

An explanation of accounting concepts and terminology and a coverage of the accounting communication and reporting system of financial statements; using accounting information for special decision-making; financial modelling as a decision support system; how

costs are accumulated for manufacturing control purposes; current issues in accounting for manufacturing including activity based costing, costing for quality, costing for productivity.

Course: ME76

Credit Points: 12 **Contact Hours:** 3 per week

■ FNN300 ACCOUNTING 2 (PY)

This unit satisfies the professional year syllabus of the Institute of Chartered Accountants in Australia in applied areas of managerial accounting, finance and auditing. The unit builds upon the undergraduate framework in these areas. Topics are revised annually by the Institute with a focus on applied practice.

Courses: BS70, BS87

Prerequisite: AYN300

Credit Points: 12 **Contact Hours:** 3 per week

■ FNN301 MANAGEMENT ACCOUNTING (PY)

This unit is designed to satisfy an elective topic in the professional year program of the Institute of Chartered Accountants in Australia. The syllabus is revised annually and applied advanced managerial topics are included as the profession determines necessary for senior managerial accountants.

Courses: BS70, BS87

Prerequisite: FNB124

Credit Points: 12 **Contact Hours:** 3 per week

■ FNN303 MANAGEMENT ACCOUNTING (MBA)

Management accounting and the issues confronting a management accountant. On completion of the unit, students should have an appreciation of various management accounting concepts, and be able to apply these concepts to business/accounting situations. Topics include: the nature of management accounting; cost concepts; cost profit-volume analysis; relevant costs and special decisions; flexible budgeting; responsibility accounting; costing.

Course: BS81, IF64

Prerequisites: AYN101 or AYN112

Credit Points: 12 **Contact Hours:** 3 per week

■ FNP101 QUALITY COST ANALYSIS

Accounting language in AS2561; classification of costs, nature of fixed and variable costs for cost analysis; development of cost groupings within an organisation, use of cost allocation and cost control methods; prevention and appraisal cost data sources. Master budget, flexible budgets, derivation of standards for cost control, isolating variances, reviewing sub-standard production; burden of overhead costs, hiding the cost of poor quality production – single run case; overheads in service and non-profit organisations; identifying the cost of production in a process – continuous run, pricing of partly finished goods and at production checkpoints; activity based costing as a means to optimise quality costs.

Course: IF69

Credit Points: 6 **Contact Hours:** 3 per week

■ HLN001 LITERATURE REVIEW

■ HLN002 RESEARCH PROJECT

■ HLN003 THESIS PRESENTATION

These three units combine to constitute the research/thesis component of the Master of Health Science. The thesis in total provides students with an opportunity to formally extend and synthesise knowledge gained in earlier semesters of the program. This study represents an independent and original piece of research completed with the guidance of a supervisor. The thesis provides an opportunity for coursework conducted in the area of specialisation to be applied in a practical manner reflecting the student's specific interest in health science. The thesis may be a report on research which

makes a contribution to knowledge, or a study in which the student critically analyses and appraises existing knowledge and produces observations and conclusions of value to the field concerned. The thesis is divided into three distinct units: Literature Review 12cp, Research Project 12cp, Thesis Presentation 24cp. Units may be studied independently or concurrently.

Course: HL88

Credit Points: 48 total

Contact Hours: HLN001 – 3 per week, HLN002 – 3 per week

■ HLN405 QUALITATIVE RESEARCH

Addresses qualitative methodologies and methods pertinent to research in the health sciences.

Courses: HL88, HL50, HL52, HL58, NS85, NS64, PU65, PU69

Credit Points: 12 **Contact Hours:** 3 per week

■ HLP101 ADVANCED DISCIPLINE READINGS

This unit provides the opportunity for students to identify and review the literature relevant to their selected research topic. A one day seminar in advanced information retrieval skills is included.

Courses: HL50, HL52, HL58

Credit Points: 12

■ HLP102 RESEARCH SEMINARS

Preparation and completion of a seminar presentation in a professional and scientific manner plus attendance at scheduled seminars.

Courses: HL50, HL52, HL58

Prerequisites: MAN009 or HLN405

Credit Points: 12

■ HLP103 DISSERTATION

This unit is broken into a number of components which are completed over successive semesters (as appropriate for full-time or part-time course structure). A written report in the form of a dissertation proposal must be submitted by the end of week 6 in the semester in which enrolment in the dissertation commences.

Courses: HL50, HL52, HL58

Co-requisites: All other units in Honours program

Credit Points: 48

■ HMB171 FITNESS, HEALTH & WELLNESS

The study of systems of the human being basic to physical activity; the interrelationships of health, physical activity and wellness, historically and dimensionally; basic principles of conditioning and exercise prescription to demonstrate the impact of physical activity on lifestyle diseases, health behaviours and wellness.

Courses: ED50, ED51, HM42

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB172 PHYSICAL ACTIVITY, NUTRITION AND WEIGHT CONTROL

An introduction to the essential physical growth concepts and an overview of nutritional principles as they apply to physical activity and weight control.

Course: ED50, HM42

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB271 MOTOR CONTROL & LEARNING

Overview of relevant theories and research in motor control and learning for acquisition of skilled motor behaviour; a knowledge of information processing and sensory systems; memory processes; factors contributing to motor learning; laws of simple movements; motor programs and motor control processes.

Course: ED50, HM42

Prerequisite: LSB231

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB272 BIOMECHANICS

The application of mechanics as they apply to human movement and sports performances including: kinematics and dynamics of human body models; quantitative analysis; impact; work and power.

Courses: ED50, HM42, ME46

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB273 EXERCISE PHYSIOLOGY

Energy systems; aerobic and anaerobic systems; bioenergetics; fuels for energy. Fitness components: aerobic capacity, strength, power, muscular endurance, flexibility. Training and conditioning: effect on the system of the body; methods and techniques; training for different populations (children, females, aged); training for specific sports and activities. Evaluation of fitness: tests for all fitness parameters; essential practical and laboratory procedures.

Course: ED50, HM42

Prerequisites: LSB231 or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB274 FUNCTIONAL ANATOMY

Surface anatomy of the trunk and upper and lower limb; morphological and mechanical properties of bone, muscle-tendon units with implications for physical activity; joint structure and function; analyses of movement tasks including walking and running; cinematography and electromyography in functional anatomy of movement tasks.

Courses: ED50, HM42, ME46

Prerequisite: LSB131

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB275 EXERCISE & SPORT PSYCHOLOGY

Introduction to the psychological factors which influence performance, participation and adherence to both sport and exercise programs; personality and the athlete; attention and arousal; relaxation theory and practice; aggression and psycho-social development, leadership and team cohesion.

Course: ED50, HM42

Prerequisite: SSB912 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB276 RESEARCH IN HUMAN MOVEMENT

Principles of research: purposes, philosophy, applications. Quantitative research: principles of test construction and administration; basic statistics; basic research design hypothesis testing. Qualitative research: methodology; data collection; theory building. Research presentation: writing a research report; developing conclusions. Application of research; examples in human movement; related literature.

Course: HM42

Credit Points: 12 **Contact Hours:** 4 per week

■ HMB301 HEALTH & PHYSICAL EDUCATION 1

The nature, scope and importance of health and physical education as part of the primary school curriculum. Content includes: concepts and content incorporated in the philosophy of health education and the importance of lifelong healthy living; the structure, management and evaluation of physical education lessons in the school environment; planning learning experiences and developing health and physical education program modules.

Course: ED51

Credit Points: 12 **Contact Hours:** 5 per week

■ HMB302 HEALTH & PHYSICAL EDUCATION 2

This unit builds on HMB301 to give a greater understanding of the nature of health education and physical education as applied curriculum areas. Further insight into relevant syllabus and curriculum documents is provided; competencies in planning and teaching developed; close links with teaching practice.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB304 PHYSICAL ACTIVITY & MODERN SOCIETY

The nature of the symbiotic relationship between social patterns and the nature and role of physical activity and its influence upon physical education, sporting and fitness programs in primary schools. The importance of both social and cultural change and of the role of teachers in the design and implementation of such programs.

Course: ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB305 PERSONAL HEALTH

An examination of the range of factors influencing personal health including lifestyle and a range of social, economic and environmental factors. A holistic perspective on personal health.

Courses: ED50, ED51

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB306 DEVELOPMENTAL & INTEGRATED PHYSICAL ACTIVITY

Provides the theoretical basis to enable teachers of physical education to program for and implement physical activity for all children. Topics include: normal motor development and variations in these patterns in children with an intellectual, sensory, neurological, physiological or orthopaedic disability. Students taking this unit participate in the community based physical activity programs for such children.

Course: ED51

Prerequisite: HMB306

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB308 PHYSICAL ACTIVITY STUDIES

An overview of the breadth of the exercise science field with reference to the structure and function of the human body and key issues associated with the development of health related and motor fitness.

Course: ED51

Prerequisite: HMB304

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB309 MOTOR DEVELOPMENT, LEARNING & PERFORMANCE

An introduction to the cognitive and motor processes involved in the learning and performance of motor skills. Areas studied include: key terms related to motor development, learning and control; classification systems used in the motor domain; general and individual patterns of physical growth and motor development; information processing and memory systems in the context of motor behaviour.

Course: ED50

Credit Points: 12 **Contact Hours:** 5 per week

■ HMB310 PHYSICAL EDUCATION CURRICULUM STUDIES 1

The nature of physical education as an applied curriculum area. Insights into relevant Queensland syllabus and curriculum documents are provided; competencies in planning and teaching are developed and close links are made with teaching practice.

Course: ED50, ED54

Prerequisites: EDB323 and at least 48 credit points in the relevant discipline area

Credit Points: 12 **Contact Hours:** 3 per week

HMB311 MOVEMENT ANALYSIS

Introduces students to the anatomical and mechanical foundations of human movement, an appreciation of which is necessary to understand and interpret performance skills. Knowledge of the skeletal structure, joints and muscle actions, combined with an understanding of the mechanical principles which govern the body's movements are the essential components of this unit.

Course: BS50, ED50

Credit Points: 12 Contact Hours: 4 per week

HMB312 FITNESS PARAMETERS

To equip students to plan and monitor fitness programs; topics include: essential physiology; circulatory, respiratory, muscular and energy systems; effects of nervous and endocrine functions on body systems; components of fitness-health related and sport performance related programs; principles and methods of training and conditioning; nutrition and weight control; thermoregulation and fluid balance.

Course: BS50, ED50,

Credit Points: 12 Contact Hours: 5 per week

HMB313 SOCIO-CULTURAL FOUNDATIONS OF PHYSICAL ACTIVITY

Lays a foundation in the disciplines of the socio-cultural areas which underpin the study of human movement. It serves as an introduction to the historical, sociological, philosophical, anthropological and cultural foundations of sports, games and leisure activities.

Courses: ED50, HM42

Credit Points: 12 Contact Hours: 4 per week

HMB314 PERFORMANCE SKILLS 1

Involves application of scientific principles to the analysis and development of techniques in all major swimming strokes, water rescue methods and track and field events. Students explore instructional strategies, motivational, conditioning and training activities, the development of activity programs for various ability levels, and event rules application.

Course: ED50

Credit Points: 12 Contact Hours: 6 per week

HMB315 PERFORMANCE SKILLS 2

Various game forms are analysed in order to identify fundamental game skills and problem areas in skill development. Emphasis is placed on the application of relevant skills to suit game situations; of appropriate strategies for teaching and coaching selected sports to a variety of age groups and on the interpretation of rules in a competitive situation.

Course: ED50

Credit Points: 12 Contact Hours: 6 per week

HMB316 PERFORMANCE SKILLS 3

Basic theoretical principles fundamental to the performance and teaching of gymnastics and dance; physical fitness and basic biomechanical principles of excellence in gymnastics; routines incorporating a variety of gymnastic and dance skills on floor/apparatus; recognise/ remedy of unsafe practices.

Course: ED50

Credit Points: 12 Contact Hours: 6 per week

HMB317 OUTDOOR EDUCATION

The value and place of outdoor education in schools and the community; development of proficiency in a number of outdoor pursuits; lightweight, minimum impact camping; leadership skills and safety techniques; the Australian natural environment; promotion of positive attitudes towards natural environments.

Course: ED50

Credit Points: 12 Prerequisite: HMB314 Contact Hours: 6 per week

HMB321 SPORT IN SOCIETY

The relationship between sport and the social world. The nature and importance of the role of sport in modern Australian society through an analysis of such contemporary issues and developments in sport as drugs in sport, sport and the law, violence in sport, equity and sport, and sport and socialisation.

Course: BS50, ED50

Prerequisites: HMB313 or consent of lecturer.

Credit Points: 12 Contact Hours: 3 per week

HMB324 ADVANCED PERFORMANCE LABORATORIES

Investigation of selected advanced theoretical structures and application to a performance activity.

Course: ED50

Prerequisites: Compulsory Level 1 and Level 2 units

Credit Points: 12 Contact Hours: 3 per week

HMB328 INTERNATIONAL PHYSICAL EDUCATION & SPORT

Provides students with an international perspective on physical education and sport. Comparative studies in this field give insight into life in other countries act to enhance international understanding of the global village.

Course: ED50

Prerequisites: HMB394 or HMB321 or consent of lecturer

Credit Points: 12 Contact Hours: 3 per week

HMB329 PLAY & CULTURE

A study of the play element in non-literate societies providing insight into play in contemporary societies. The anthropology of play provides a perspective not only for analysing play behaviour itself, but also for describing other cultural experience.

Course: ED50

Prerequisites: HMB313 or consent of lecturer.

Credit Points: 12 Contact Hours: 3 per week

HMB332 HEALTH RELATED FITNESS

The role of health related fitness in the community and in the school for the attainment of optimal health.

Course: ED50

Credit Points: 12 Prerequisite: PUB327 Contact Hours: 3 per week

HMB333 CHILD & ADOLESCENT HEALTH

Child and adolescent health and the wide range of factors that impact on the health of individuals in these two crucial stages of life. An analysis is made of skills required for health enhancing behaviours and experience provided in some of the skills needed to assess and maintain the health status of children.

Courses: ED50, ED51

Credit Points: 12 Contact Hours: 3 per week

HMB337 ORGANISATION & MANAGEMENT IN PHYSICAL EDUCATION & SPORT

School physical education departments and sporting associations are middle-sized organisations requiring direction for servicing a large client base with a fluctuating budget. Students examine the role of administrators, management and leadership styles, and the administration of monies, facilities and human resources in a sports setting.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

HMB340 PHYSICAL EDUCATION CURRICULUM STUDIES IB

Designed for those students who have chosen to do a double major in physical education, this unit extends the understanding developed in HMB310 and focuses

particularly on teaching within the classroom setting. Students are introduced to strategies used to develop higher order thinking skills and are encouraged to experiment with their use.

Course: ED50, ED54

Credit Points: 12 Contact Hours: 3 per week

■ HMB341 SPORTING & CAMPING ADMINISTRATION

The primary school physical educator is responsible for the organisation of educational programs both at school and in other educational and sporting settings. This unit assists students in understanding and organising a variety of sporting tournaments, carnivals and camping programs as educationally sound, safe and enjoyable experiences for children.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ HMB342 THE DEVELOPMENT OF TEACHING SKILLS IN PHYSICAL EDUCATION

Designed around micro-teaching and involving student teachers, children and their working environment in schools, this unit promotes excellence in teaching, preparation and planning with an emphasis on active learning and research. Physical education teacher education students develop a greater understanding of their prospective working environment.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ HMB343 ENVIRONMENTAL HEALTH

The focus of this unit is on educational responses to the growing concern about environmental hazards and their detrimental effects on human health. Emphasis on the curriculum implications of knowledge will assist children to make a positive contribution to health policy.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ HMB344 HUMAN RELATIONSHIPS EDUCATION

This unit has a dual focus: effective interpersonal communication by teachers as members of the school community; and the curriculum and pedagogical process for teaching children. Care, personal development, work experience and community-based learning characterise these curriculum programs. Students are introduced to these processes through lectures, seminars, workshops and appropriate field study experiences.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ HMB345 MOTOR DEVELOPMENT & PERFORMANCE IN DISABLED CHILDREN

Examination of the effects of a wide range of intellectual, sensory, neurological, orthopaedic and physiological disorders on the motor development and performance of children. Assessment techniques for evaluating motor development and performance are combined with program planning and implementation with specific cases.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ HMB361 FUNCTIONAL ANATOMY 2

Anthropometric protocols for the measurement of the body; morphological considerations: changes in body size and composition including skeletal, muscle and fat mass; body composition assessment methods: direct and indirect methods suitable to laboratory and field settings: somatotyping, maturation and

performance; postural implications; exercise.

Course: HM42

Prerequisite: HMB274

Credit Points: 12

Contact Hours: 4 per week

■ HMB362 BIOMECHANICS 2

Research techniques within biomechanics; analysis of force systems; photographic, cinematographic; goniometric and electrographic analysis of movement; mass of inertial characteristics of the human body and biomechanical models.

Course: HM42

Prerequisite: HMB272

Credit Points: 12

Contact Hours: 4 per week

■ HMB363 INDEPENDENT STUDY

To meet the specific interest of students beyond content offered within existing units; conceptualise, plan and execute a research study including survey of literature, development of an action plan, reflection on a practice or situation, and proposal for future action. The student works at an advanced level and autonomously under the supervision of a lecturer.

Course: ED50, HM42

Credit Points: 12

Contact Hours: 4 per week

■ HMB364 SEMINARS IN HUMAN MOVEMENT

Offered to capitalise on the expertise of resident or visiting staff, special needs and interests of students, and to create flexibility in unit offerings. These may include special expertise, high quality limited period research projects, seminars, conferences and new initiatives by staff and students. An interest group will study the area chosen cooperatively.

Course: ED50, HM42

Credit Points: 12

Contact Hours: 4 per week

■ HMB370 PHYSICAL EDUCATION CURRICULUM STUDIES 2

The focus of this unit is divided between issues and directions of current trends in curriculum development and advanced strategies used to achieve variety in the presentation of indoor and outdoor lessons.

Course: ED50, ED54

Prerequisite: HMB310

Credit Points: 12

Contact Hours: 3 per week

■ HMB371 MOTOR CONTROL & LEARNING 2

Major recent theories in motor control and learning; centralist and peripheralist theories; concepts of coordination and skill; control and learning of complex movements; interlimb coordination; interacting schemata; visual-spatial, force and temporal aspects and sequencing of complex movements. Research design in motor control and learning.

Course: ED50, HM42

Prerequisite: HMB271

Credit Points: 12

Contact Hours: 4 per week

■ HMB372 BIOPHYSICAL BASES OF MOVEMENT REHABILITATION

Overview of rehabilitation including medico-legal aspects; health professionals in the rehabilitation process; exercise specialist, medical practitioner, physiotherapist, specialist physician; exercise prescription: overview of responses to injury implications for exercise programs; modalities of treatment: exercise and rest; immobilisation, cryotherapy and hydrotherapy; exercise prescription rehabilitation.

Course: ED50, HM42

Credit Points: 12

Contact Hours: 4 per week

■ HMB374 PSYCHOLOGY OF REHABILITATION

Practical application of psychological skills beneficial to the physical and psychological rehabilitative process: topics include: specific rehabilitation strategies;

vicarious ego support; trauma from athletics; psychological process; disabled athletes.

Course: ED50, HM42 **Prerequisite:** HMB275
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB375 ADAPTED PHYSICAL ACTIVITY

Similarities and differences in the motor development and performance with intellectual, sensory, neurological, physiological, orthopaedic, musculo-skeletal and cardio-respiratory conditions; assessment and programming for individuals with impairments including program organisation and service delivery models; importance of fitness, sport and leisure for disabled individuals in mainstreamed and disorder specific groups; dance and aquatics.

Course: ED50, HM42 **Prerequisite:** HMB271
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB376 MOTOR DEVELOPMENT IN CHILDREN

Theoretical perspective of normal and abnormal motor development, incorporating maturational, descriptive and behavioural aspects; underlying sensory, perceptual, neurological and cognitive changes which influence motor development in children. A theoretical understanding of gross and fine movement behaviour; and intellectually disabled, auditorily impaired and neurologically impaired children. Programs for motor impaired children.

Course: ED50, HM42
Prerequisites: HMB271 or at lecturer's discretion.
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB377 CHILDREN IN SPORT

Physical development of the young athlete; physical maturation; benefits of participation in sport and physical activity; psycho-social issues: positive and negative effects of participation including competitive stress; injuries to the growing skeleton: overtraining, overuse injuries; strength training in childhood and adolescence; promotion of safety in sport; accreditation of teachers and coaches, policy guidelines for junior sport, Aussie sport program.

Course: ED50, HM42
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB380 PHYSICAL EDUCATION CURRICULUM STUDIES 2B

This unit is designed for those students doing a double major in physical education and focuses particularly on the areas of assessment and the use of action research in curriculum innovation. Students are required to undertake individual projects which allow them to practise critical reflection and autonomous learning in their pursuit of knowledge.

Course: ED54 **Prerequisite:** HMB340
Credit Points: 12 **Contact Hours:** 3 per week

■ HMB381 EXERCISE PHYSIOLOGY 2

Theoretical component: an extension of material covered in exercise physiology; respiratory, circulatory, and muscular systems; cardiac dynamics; hormonal and biochemical aspects of exercise. Laboratory component: familiarity with all equipment in the laboratory; testing procedures and methodology; interpretation and evaluation of results.

Course: HM42 **Prerequisite:** HMB273
Co-requisite: HMB382
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB382 EXERCISE PRESCRIPTION

Students research and analyse the physiological methods and procedures used in training and conditioning programs of all forms and levels of physical activity.

The conditioning needs of specific populations are studied. The application of fitness assessment and exercise prescription is an integral aspect.

Course: ED50, HM42
Prerequisites: HMB273 or at lecturer's discretion.
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB383 WORKPLACE HEALTH

The historical and current position of workplace health as one emerging focus of occupational health and safety. Issues, laws, policies, programs and union, employer and employee perspective are analysed in conjunction with the role of workplace health professionals. The planning, development, promotion, implementation and administration of programs from a fitness counsellor's perspective.

Course: HM42
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB384 INJURY PREVENTION & REHABILITATION

Roles and responsibilities of health professionals: first aid, injury prevention, rehabilitation, health training and facility management; prevention of injury: conditioning and fitness components, methods of evaluation of performance, personal responsibilities, protective equipment; types of injury: primary (indirect, direct and overuse) and secondary; structural classification of injury; procedures for management and rehabilitation: specific injuries.

Course: ED50, HM42
Credit Points: 12 **Contact Hours:** 4 per week

■ HMB390 HEALTH EDUCATION CURRICULUM STUDIES 1

The nature of health education as an applied curriculum area. Insights into relevant Queensland syllabus and curriculum documents are provided; competencies in planning and teaching are developed and close links are made with teaching practice.

Course: ED50, ED54
Prerequisites: EDB323 and at least 48 credit points in the relevant discipline area
Credit Points: 12 **Contact Hours:** 3 per week

■ HMB391 PROMOTION OF PHYSICAL ACTIVITY

Physical education departments, schools and sports organisations are constantly seeking funds, participants and spectators, and often the limiting factor is the low profile of the groups concerned. In this unit students examine the role of marketing and promotion, identify client and market mix, and develop strategies for the promotion and funding of activities.

Course: BS50, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ HMB392 ORGANISING TOURNAMENTS & EVENTS

Competition is fundamental to all sports whether it be against oneself or another party. In this unit the philosophies related to competition and award systems for a varying client mix are examined; the complexities of, and skills required for, organisation of major sporting events in schools and other settings are discussed; and utilisation of human and facility resources in these settings is considered.

Course: BS50, ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ HMB393 SPORT & EQUITY

The inequalities that exist in society's major institutions, with particular reference to sport and physical education. The development of knowledge of government policy and legislation regarding equity in public,

private and corporate establishments, as well as within educational settings.

Course: BS50, ED50

Prerequisites: HMB321 or HMB394 or consent of lecturer

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB394 HISTORY OF PHYSICAL EDUCATION & SPORT

The historical evolution of physical education, sports and games with their role and relevance in societies past and present. It extends the historical focus of HMB313 and, itself provides the foundation for contemporary analyses of sport in society.

Course: BS50, ED50

Prerequisite: HMB313

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB395 HEALTH EDUCATION CURRICULUM STUDIES 2

The focus of this unit is divided between issues and directions associated with current trends in curriculum development and advanced strategies used to achieve variety in the presentation of health lessons.

Course: ED50, ED54

Prerequisite: HMB390

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB410 PHYSICAL EDUCATION CURRICULUM: SECONDARY

The factors responsible for current physical education curriculum development. Emerging trends are studied to highlight the implications for physical education programs; challenges the student to design a secondary curriculum that reflects current trends.

Courses: ED26, ED32

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB411 PHYSICAL EDUCATION CURRICULUM: PRIMARY

The notion of the teacher of physical education and the classroom teacher reflecting on their experiences is of prime import to the nature of this unit. An examination of the principles and procedures which are used within the physical education curriculum and the individual's classwork is central to the outcome. Action research methods are explained and linked to the sociological qualities of current curriculum practices. These issues relate to individual relationships within the physical education settings.

Courses: ED26, ED31

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB412 HEALTH EDUCATION CURRICULUM PLANNING

Analysis and application of curriculum design theory and curriculum research to health education in primary and secondary schools. A focus on a curriculum design project is supported with a situational analysis of the project setting and is evaluated in a report on the effectiveness of the process.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB440 MOTOR DEVELOPMENT & LEARNING IN CHILDREN

The role of reflexes and early voluntary movements in the development of the child; fundamental patterns of movement (walking, running, jumping, throwing, catching) and their sequential development; development of comprehension and manipulation; theories of motor learning; evaluation of perceptual-motor, sensory-motor and psychomotor theories.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB441 SOCIOLOGY OF SPORT

A sociology of sport; historical and contemporary perspectives; sport in Australia; Australia's sporting heritage; corruption of sport; control of sport; media and sport; inequality in sport; social issues in sport.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB442 ADMINISTRATION IN PHYSICAL EDUCATION & SPORT

Identification of duties of the administrator; administration theory; leadership styles and conflict resolution; budgeting and money management including sponsorship and fundraising; planning for a range of events; processes and procedures of management against a school and club setting.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ HMB471 PROJECT 1

Students in the Bachelor of Applied Science are required to undertake a project in Year 4. Students work in small groups on original topics. Work includes: a literature review and the presentation of experimental hypotheses, research methodology and analysis procedures. Groups present a formal colloquium at the end of Semester 1.

Course: HM42

Credit Points: 12

■ HMB472 PROJECT 2

The implementation of the plan, the analysis of results and publication of a report. Groups present a formal colloquium at the end of Semester 2.

Course: HM42

Credit Points: 12

■ HMB473 PRACTICUM 1

A structured and supervised initial vocational experience linked to the student's specialised strand of study: the reality of the workplace; professional expectations; work ethics; client contact; the range of environments in the sport industry; practical application of specialist knowledge and skills in clinic settings. Reflective analysis of the experience.

Course: HM42

Credit Points: 12

■ HMB474 PRACTICUM 2

As an extension of HMB473, an intense vocational experience undertaken as an internship over a minimum period of twenty days full-time employment: operational tasks to include management and administration; independent professional skills and knowledge; full client services illustrating effective communication skills and a comprehensive reflective analysis of the internship.

Course: HM42

Credit Points: 24

■ HMB610 CLINICAL MEASUREMENT

Blood flow and volume, plethysmography; cardiorespiratory measurement; electrical impedance imaging; anthropometry and body composition; measurement of normal and pathological gait; kinematic and kinetic analyses of human movement and performance; functional evaluation of orthotics and prostheses; electromyography; ergonomic and environmental issues; measurement of special populations.

Course: ME46 **Prerequisites:** HMB272, HMB274

Credit Points: 8 **Contact Hours:** 3 per week

■ HMB611 HUMAN PERFORMANCE

Human adaptation to physical activity; performance efficiency and enhancement in children and adolescents; performance characteristics of adults and the elderly; human performance and the environment; performance evaluation and restoration/enhancement in the injured or disabled population.

Course: ME46

Prerequisites: HMB272, HMB274, HMB615

Credit Points: 8 Contact Hours: 3 per week

■ HMB614 BIOPHYSICAL BASES OF MOVEMENT REHABILITATION

The rehabilitation process; introduction to rehabilitation protocols; mechanisms of injury and repair and functional restoration; principles of exercise prescription and rehabilitation; modalities of treatment; modalities of exercise prescription in rehabilitation.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ HMB615 EXERCISE PHYSIOLOGY

Bioenergetics; exercise metabolism; hormonal response to exercise; muscle structure and function; circulatory adaptations, respiration and acid-base balance during exercise; temperature regulation, training and conditioning; body composition and nutrition; fitness testing and assessment procedures.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ HMB616 PSYCHOLOGY OF REHABILITATION

Factors that predispose to injury and behavioural change; the psychological process of rehabilitation; teaching specific psychological rehabilitation and coping strategies; the grief process; the rehabilitation psychologist's role in the rehabilitation team; disabled athletes.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ HMB617 WORKPLACE HEALTH

History of workplace health; legal aspects; role of associated professionals; trends in mortality and morbidity; workplace health promotion agencies and programs; economic considerations; program promotion.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ HMB801 SPORT & MASS MEDIA

The commercialisation and development of sport and the mass media are inextricably linked and the nature and implications of this relationship are the foundation for the investigation of this unit. Examination of the past, present and future aspects of this relationship through examination of current issues.

Course: BS50

Credit Points: 12 Contact Hours: 3 per week

■ HMB802 STRUCTURE & POLICY OF AUSTRALIAN SPORT

An understanding of the structure and policies of Australian sport is fundamental for administrators who are required to operate through the levels of government for the conduct, promotion and funding of their chosen sport. The relevant documentation and strategies for operating within the system.

Course: BS50

Credit Points: 12 Contact Hours: 3 per week

■ HMN601 EXERCISE & HEALTH ACROSS THE LIFESPAN

Physical activity is almost universally accepted as being relevant to health, although the pattern of activity (nature, intensity, frequency and duration of individual exercise bouts, cumulative years of participation) required to induce maximum health benefits remains uncertain. Exercise throughout the lifespan and the implications for good health.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ HMN602 READINGS IN HUMAN MOVEMENT STUDIES

Enables students to explore the breadth of their chosen sub-discipline in contrast to the more specific focus of their thesis topic to follow. Provides the opportunity for students to develop a compendium of readings in an area(s) not catered for in other units comprising their specialisation. Students select advanced readings in their chosen field and submit a comprehensive annotated bibliography that critically reviews the available literature. This work is conducted under the supervision of a lecturer allied to the chosen area of study.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ HMN603 SCIENTIFIC BASES OF HUMAN PERFORMANCE

Provides the opportunity to develop theoretical and practical knowledge of selected topics representative of the scientific bases of human performance. Topics include: material from the recognised sub-disciplines of human movement science, functional anatomy, biomechanics, and exercise physiology. Investigates changes in the human energy systems, musculo-skeletal system and cardiovascular system that occur when the body is placed in a physically stressful situation (exercise being the predominant stressor considered). Specific applications to the physical activity setting.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ HMN604 SOCIAL ISSUES IN SPORT

An advanced in-depth analysis of the diverse social issues which have permeated sport in Australia. The requirement for a critical cultural analysis has been necessitated by issues such as discrimination, violence, drugs, elitism, ethnocentrism, internationalism, politicisation, commercialisation and quantification. The focus is on the analysis of the nature, role and significance of sport in modern society. Designed for professionals and practitioners in the field of sport and physical activity who are in the corporate setting, educational domain and government and community departments.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ HMP015 SCHOOL HEALTH PROGRAM PLANNING

Planning, implementation and evaluation of school health programs. Analysis of a range of planning models in health education and health promotion.

Courses: ED31, PU69

Prerequisite: HMP014

Credit Points: 12 Contact Hours: 3 per week

■ HMP401 PHYSICAL EDUCATION CURRICULUM STUDIES 1

Nature of physical education as an applied curriculum area; interpreting and managing the physical education practical and theoretical learning environment with particular attention to learner safety, maximum participation and teaching for cognition in practical activities; Mosston's spectrum of teaching styles.

Course: ED32, ED37

Prerequisite: HMP420

Credit Points: 12 Contact Hours: 3 per week

■ HMP402 PHYSICAL EDUCATION CURRICULUM STUDIES 2

Clarification of the motives and roles of physical education as a medium for education; exploration of the current physical education documents and the value orientations implicit within; language in physical education; the affective domain in physical education; teaching in unusual environments; evaluation and

selection of learning experiences.

Course: ED32, ED37 **Prerequisite:** HMP421
Credit Points: 12 **Contact Hours:** 3 per week

■ HMP403 HEALTH EDUCATION CURRICULUM STUDIES 1

Nature of health education as an applied curriculum area; relevant Queensland syllabus and curriculum documents; competencies in planning and teaching are developed and close links made with teaching practice.

Course: ED32, ED37
Credit Points: 12 **Contact Hours:** 3 per week

■ HMP404 HEALTH EDUCATION CURRICULUM STUDIES 2

Issues and directions associated with current trends in curriculum development; advanced strategies used to achieve variety in the presentation of health lessons.

Course: ED32, ED37
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB100 ADVANCED ORGANISATIONAL BEHAVIOUR

Investigation and analyses of major organisational behaviour issues undertaken within a context of organisational effectiveness and the quality of work life; analysis of relevant literature; application of concepts via case studies, surveys and/or projects.

Course: BS50 **Prerequisites:** HRB130, HRB104
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB101 ADVANCED TRAINING & DEVELOPMENT

Planning and programming management and supervisory development; career planning, developing a complete training program; advanced training techniques: case study, role play, laboratory training, simulations, games, programmed instruction, computer assisted instruction, individualised learning video and learning; managing the training and development function: planning, organising staffing, direct controlling; the competencies of a trainer. Experiential and project activities.

Course: BS50 **Prerequisite:** HRB120
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB102 ADVOCACY & NEGOTIATION

Preparation and conduct of various types of negotiated industrial cases; preparation of tribunal documentation; preparation and presentation of cases before industrial tribunals; direct bargaining and enterprise-based bargaining.

Course: BS50 **Prerequisites:** HRB131 or HRN105
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB103 EMPLOYMENT REGULATION & ADMINISTRATION

The formal regulatory requirements that establish the structure and foundation of the employment relationship, as well as the informal administrative rules and systems that apply, examined in a broad industrial, social and political framework; practical and operational implications and the impact of managing these issues examined from an industrial relations context.

Course: BS50 **Prerequisites:** HRB131 or HRN104
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB104 FOUNDATION HR COMPETENCIES

The personal and interpersonal competencies (in both cognitive and affective domains) which form the foundations from which a HRM practitioner must operate. It develops knowledge of, and skills in, self-awareness, personal and interpersonal development and interpersonal processes. It emphasises the design of process to achieve outcomes.

Course: BS50

Prerequisites: COB129 or HRB130 or HRN108
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB105 HUMAN RESOURCES & THE ORGANISATION

The interface of human resources with the organisation and its requirements; concepts and processes for analysing jobs; human resources planning, job evaluation, performance appraisal and remuneration processes; data. A substantial level of analytical and professional competence is expected in this unit.

Courses: BS50, BS74
Prerequisites: HRB131 or HRN104
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB109 INDUSTRIAL DEMOCRACY

The theoretical basis for the range of industrial democracy schemes which have been developed. It focuses on employment relationships, organisation of work and productivity. Comparative industrial democracy especially Britain, Spain, Sweden, Germany and Japan and their relevance to Australia.

Course: BS50 **Prerequisites:** HRB131 or HRN105
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB110 INDUSTRIAL LAW

The development and role of law in industrial relations in Australia; industrial relations legislation: common law contract of employment; industrial torts; other statutes and case law related to the above.

Course: BS50 **Prerequisites:** HRB131 or HRN105
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB111 INDUSTRIAL MANAGEMENT

The management process, planning, leading, organising, controlling; human resources management aspects of communication, motivation, leadership and teamwork, with practical applications to planning and control, personnel relations, job design.

Courses: EE43, ME45, ME46
Credit Points: 6 **Contact Hours:** 3 per week

■ HRB113 INDUSTRIAL RELATIONS HISTORY

The emergence and development of labour movements and employer groups; the ideas which gave rise to and changed these institutions. Although the focus is on Australia, relevant European and North American experience is included.

Course: BS50
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB114 INDUSTRIAL RELATIONS INSTITUTIONS

The history, structure, functions and role of the industrial relations system at both state and federal levels, including trade unions and employer associations; award restructuring and the movement to decentralised bargaining arrangements; inter-relationship of industrial relations with human resource management towards the development of employee relations.

Course: BS50 **Prerequisite:** HRB131
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB115 INDUSTRIAL RELATIONS POLICIES

Examination of the most significant policies of governments, employer bodies and unions; the development and influence of these policies.

Course: BS50 **Prerequisites:** HRB114 or HRN105
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB116 INNOVATION & ENTREPRENEURSHIP

The nature and processes of innovation and new ven-

ture creation; assessment of the entrepreneur and new venture team, as well as the business opportunity and the resources required; methods of establishing ventures along with legal and financing issues; problems with, and effective management strategies for, innovation; focuses on developing a comprehensive, professional standard business plan for a proposed new venture; the negotiation of new venture deals. Students are strongly urged to take a unit of Accounting before attempting this unit, although this is not compulsory.

Courses: BS50, IF56

Prerequisites: BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB117 INTERNATIONAL HRM

Organisational structure and cultural differences; communicating across cultural boundaries; multicultural teams; cross-cultural leadership, motivation and negotiation; comparative human resource management; comparative employee relations.

Course: BS50 **Prerequisites:** HRB131 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB118 INTERNATIONAL MANAGEMENT

Management in a global context; international regulation and co-operation; environmental risk analysis for multinational enterprises; management skills in different cultures; regional foci; ethics and international management.

Course: BS50, IF56

Prerequisites: BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB119 INTERVIEWING & COUNSELLING

Development of practical skills in aspects of employment interviewing through an introduction to the theory and principles of interviewing, and supervised experience. The characteristics of the interview situation; the interviewer, the interviewee and their inter-relationships; interview areas include the personal interview; information seeking and the employee-personnel interview; recruitment, appraisal, disciplinary and exit; personality theory, guidance, counselling theory and techniques; an emphasis on the human skills required to facilitate the development of others, either in individual interaction or group interaction.

Course: BS50 **Prerequisites:** HRB131 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB120 INTRODUCTORY TRAINING & DEVELOPMENT

The knowledge and competencies required of a beginning or an occasional trainer; theories, research and skill development; topics include: training in Australia; instructional models and theories of learning; training needs analysis; task analysis process; basic training techniques: skill model, information giving model, discussion model; training aids/ audiovisuals; administering a training course; evaluating learning, writing and scoring test items; follow-up training.

Course: BS50

Prerequisites: Completion of at least 96 credit points or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB121 MANAGEMENT (ENGINEERS)

Career progression of the practising engineer from a technical to a managerial role; activities to be performed for effective management; development of theoretical and practical skills in planning, organising, controlling and leading; project teams; interpersonal interaction and teamwork; application of theoretical material to case study analysis.

Course: EE44

Credit Points: 4 **Contact Hours:** 2 per week

■ HRB125 MANAGEMENT STRATEGY & POLICY

The process of strategy applied to modern management; external environmental assessment and internal organisational context; analytical skills in the formulation, implementation and evaluation of organisational strategic capability.

Course: BS50

Prerequisites: BSB102 and HRB127 (recommended)

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB126 MANAGEMENT PROCESSES

This unit builds on theories of management encountered in introductory units. It has a focus on developing skills in the analysis of concepts and on practical application of managerial principles. It emphasises decision-making in the context of strategic planning; development and adaptation of structure; control systems; process analysis. It analyses organisations within a systems paradigm considered in an environment of change.

Courses: BS50, IF52, IS43 **Prerequisite:** BSB102

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB127 MANAGEMENT THEORY & ISSUES

A critical and historical view of theories which explain the tasks and roles of managers; recent developments in management and organisational methods and issues.

Course: BS50

Prerequisite: BSB102

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB128 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

How health and safety can be managed at work; hazard identification, risk management and evaluation, control strategies and implementation programs; legal frameworks, government policy and current management strategies; safety audits and the management of health and safety functions.

Course: BS50 **Prerequisites:** HRB131 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB129 OPERATIONS & PRODUCTION MANAGEMENT

The application of qualitative management principles and quantitative management science principles to the organisational sub-system of the production/operations environment; organisation as a dynamic system, affected by internal and external forces; techniques for analysing and controlling operations; modelling and scheduling operations; inventory planning; on-site investigations.

Course: BS50 **Prerequisites:** BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB130 ORGANISATIONAL BEHAVIOUR

Impact that individuals, groups, and structure have on behaviour within organisations; theories, research and applications for understanding, predicting and developing people in organisations. Topics include: abilities, learning, work motivation and attitudes, leadership, group dynamics, conflict and organisational symbolism.

Courses: BS50, NS48, PU48

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB131 PERSONNEL MANAGEMENT & INDUSTRIAL RELATIONS

Influences impacting on human resource management and industrial relations; the theoretical foundations of human resource management and industrial relations.

Courses: BS50, IF52, IF54, IF56, IS43, IT20, NS48, PU44, PU48

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB132 PRACTICE MANAGEMENT

Small business management; the various roles in which small business managers must develop at least rudimentary proficiency. The structure, organisation, finance, planning, control, taxation, marketing and environmental factors to equip students with skills necessary for starting a successful small business.

Courses: OP42, PU45

Credit Points: 4 **Contact Hours:** 2 per week

■ HRB133 EQUITY AT WORK

Historical, legal and social perspectives on current issues surrounding equal employment opportunity and anti-discrimination initiatives; workplace implications of current laws and in particular, likely and possible impacts in making personnel related decisions; concepts and applications of the principle of merit; day to day impacts of equity legislation; practical models for EEO management planning.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB134 RECRUITMENT & SELECTION

This unit has an applied focus but draws on conceptual and research foundations and job analysis competencies. Contextual issues of the legal and social environment as well as labour markets are considered. Recruitment: from the perspective of both the organisation and the individual; recruitment strategies; selection techniques including aptitude and ability testing, work samples, assessment centres and interviews; technical issues including validity, reliability and utility analysis.

Course: BS50 **Prerequisites:** HRB105 or HRP110

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB135 SMALL BUSINESS MANAGEMENT

Australian small business and how to effectively manage a small business. Topics include: managing the functional areas of small businesses; meeting legal and governmental obligations; the management of risk (insurance), theft and fraud; managing growth; managing small businesses with problems; personal management for small business.

Courses: BS50, ED23, ED50, IF56

Prerequisites: BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB136 STRATEGIC HRM

The capstone of the HRM major; the primary objective is to integrate HR concepts and issues into the wider business and environmental context; a range of historical features, professional and ethical matters are considered; an experiential approach based in cases and/or simulations is adopted.

Course: BS50 **Prerequisites:** HRB105 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB137 WAGES & EMPLOYMENT

The forces which determine wage and employment levels; the various types of labour markets; collective bargaining and skill formation processes. The relationship between these aspects and industrial relations institutions are addressed.

Course: BS50 **Prerequisites:** HRB131 or HRN105

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB138 WORK & SOCIETY

Work and work organisations in industrialised society and their relationship with industrial relations processes and structures. Examination of work, work organisa-

tions and relations at work from a range of perspectives. The influence of control over work, work practices and technological change in an industrial relations context.

Course: BS50 **Prerequisites:** HRB131 or HRN105

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB140 MANAGEMENT & TECHNOLOGY

Exploration of the links between technical process, product innovation and management structure, policy and practice; emphasises the consequences of changes to technologies for the organisation.

Course: BS50, IF56

Prerequisites: BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB144 PUBLIC SECTOR INDUSTRIAL RELATIONS

Examination of industrial relations within the public sector in both Federal and State arenas, in particular the relationship between the various agencies of the state and public sector units.

Course: BS50 **Prerequisites:** HRB131 or HRN105

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB146 SPECIAL TOPIC - HRM

Offered as required; permits an in-depth examination of an issue of importance to HRM; content varies depending on the issue examined.

Course: BS50 **Prerequisites:** HRB131 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB147 SPORTS ADMINISTRATION

The roles of elected officials; the roles of professional administrators; the relationships between the two groups; managing meetings and committees; liaison with government departments; managing sponsorship; intra-organisational conflicts and negotiation.

Course: BS50 **Prerequisites:** BSB102 or HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB148 MANAGING PEOPLE AT WORK

Introduction to the theory, process and practice of management and organisations with special reference to an engineering environment; importance of people in the achievement of organisational objectives.

Course: ME35

Credit Points: 8 **Contact Hours:** 2 per week

■ HRB149 HUMAN RESOURCES & INDUSTRIAL RELATIONS

Influences impacting on human resource management and industrial relations in an engineering environment; theoretical foundation of human resource management and industrial relations.

Course: ME35

Credit Points: 8 **Contact Hours:** 2 per week

■ HRB150 COMPARATIVE INDUSTRIAL RELATIONS

Examination of industrial relations processes which operate under a range of social, economic, cultural and political arrangements. Emphasis is placed upon both European and Pacific-rim systems.

Course: BS50 **Prerequisites:** HRB131 or HRN105

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB151 INDEPENDENT STUDY

Enables Management, Human Resource Management and Industrial Relations majors to demonstrate competence in directing their own learning. This is essential for professionals who must subsequently keep themselves up-to-date in their area of expertise. Students undertake within an approved content area, as agreed to by their supervisor, one or more learning activities.

Course: BS50

Prerequisites: Completion of 192 credit points

Credit Points: 12 **Contact Hours:** 3 per week

■ HRB402 PUBLIC PERSONNEL MANAGEMENT

Principles of public sector management; public sector staffing structure; planning; organising/staffing; grievance resolution; reviews; development; personnel management issues; revision.

Course: BS50 **Prerequisites:** HRB131 or HRN104
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB403 QUALITY MANAGEMENT

Introduction to the role of quality in the modern organisation; relation between quality management and strategic management as a total management philosophy; international quality programs and implications for Australia; organising for quality.

Course: BS50 **Prerequisites:** BSB102 or HRN104
Credit Points: 12 **Contact Hours:** 3 per week

■ HRB404 PRINCIPLES OF MANAGEMENT

Introduction to the concepts, principles and practical techniques involved in managing organisations; strategic and operational planning; the organising function; staffing of organisations; motivation and effective leadership; the dynamics of groups and the management of organisational culture; the design and operation of effective control systems; the management of quality; managing change and conflict.

Courses: BS62, IS10
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN101 ADVANCED THEORY & COMPARATIVISM

The historical and cultural factors of industrial relations; social theory and industrial relations, explanations of institutional development and the political economy of industrial relations; government intervention in industrial relations and current developments in Australia, the EEC and South East Asia.

Courses: BS62, BS83
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN104 INTRODUCTION TO MANAGEMENT

The functions and roles of managers; concepts and principles and their practical applications; the key management functions; areas of planning, organising, staffing, directing and controlling; production/operations management and the management of quality; entrepreneurship and business planning; important problems, opportunities and trends facing managers in Australia analysed from the viewpoint of relevant academic disciplines.

Courses: BS74, BS78, BS81, ED23, LS70, LS80
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN105 LABOUR-MANAGEMENT RELATIONS

Employee relations; employee and union action; the role of governments and industrial tribunals; alternative methods and pressures to change traditional Australian systems; the Australian system of labour/management relations; systems of regulation in the employment area; negotiating skills; the resources required for mobilising change in this area.

Courses: BS78, BS81, ED23, IF64
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN108 PEOPLE IN ORGANISATIONS

The internal operation of organisations and the behaviour of people in them; exploration of a range of theories and models of individual, group and organisational

level influences on behaviour. This exposure encourages students to critically evaluate such theories and models, and the implications for management behaviour.

Courses: BS70, BS74, BS78, BS81, ED23

Prerequisite: HRN104

Credit Points: 12 **Contact Hours:** 3 per week

■ HRN112 BUSINESS POLICY

Develops a manager's knowledge, analytical understanding and action-taking competencies. The paradigm adopted is that of strategic management: analyses of stakeholders, environments and capabilities, strategy formulation, and strategy implementation. Teaching methodologies emphasise the process of management as well as analysis, content and concepts. At the conclusion of this unit, students should understand how and why strategic decisions are made, and be prepared to make them.

Courses: BS70, BS81, BS86, IF64, IF66
Prerequisites: 72 credit points from MBA core or approval of course coordinator

Credit Points: 12 **Contact Hours:** 3 per week

■ HRN113 MANAGEMENT FOR ENGINEERS

The staffing function; leadership and motivation principles and their application; time management; stress management; industrial relations systems and issues; personal and organisational communication; managing change; strategic management and the development of full, commercial business plans.

Course: ME76
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN114 LEGAL & INDUSTRIAL REQUIREMENTS

The industrial relations and legal issues addressed in implementing TQM. These include the Australian industrial system, the requirements for occupational health and safety and the role of trade unions.

Course: BS86, IF66
Credit Points: 6 **Contact Hours:** 3 per week

■ HRN115 CONTEMPORARY ISSUES IN HRM

Postgraduate students need to be familiar with the contemporary issues and the current theoretical and practical developments within their field of specialisation. These matters need to be pursued at a level of intellectual rigour beyond that required for an undergraduate degree. The main objective of this unit is to identify, analyse and report on contemporary issues in HRM. To research information relevant to identified topics. Content may vary according to which issues are current or predictably important in the future. Special expertise of staff, visiting scholars or distinguished HRM professionals may be utilised.

Courses: BS62, BS83, IF66
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN116 HRM CASES

Further development of students' capacity to analyse, evaluate and solve business problems and encourages them to develop the facility for independent thought and critical analysis. In this unit students are required to: (a) Examine a HR function in an organisation, and report observations. (b) Relate these observations to relevant theory and recent research. (c) Develop an integrated view of HR, including its functions, processes, stakeholders, and environment. Finally the unit will focus on any conceptual, theoretical, research, or practical material relevant to the cases.

Courses: BS62, BS83
Credit Points: 12 **Contact Hours:** 3 per week

■ HRN117 INDUSTRIAL RELATIONS & WORK ORGANISATION

This unit will encourage students to develop critical awareness of current debates in the area. It will also develop the students' critical, analytical and intellectual powers at an advanced level. It will connect the social, organisational and legislative aspects of industrial design relation within an analytical framework, and will enhance knowledge of workplace studies. Through this unit students are introduced to the social aspects of industrial organisation and industrial relations. Workplace studies are included and associated legislative aspects. Concepts such as the new 'Managerialism'.

Courses: BS62, BS83

Credit Points: 12 Contact Hours: 3 per week

■ HRN118 ADVANCED READINGS IN MANAGEMENT

Examination in detail of advanced theory and issues from chosen disciplinary area. The object is to have students explore the breadth of their discipline in contrast to the more narrow focus of their thesis work. Students select advanced readings in their field and submit a comprehensive criticism and review. This work is carried out in consultation with the supervisor.

Courses: BS62, BS83

Credit Points: 12 Contact Hours: 3 per week

■ HRN119 CURRENT ISSUES IN MANAGEMENT

Students examine in detail advanced theory and issues from their chosen field of study. Such study may include an analysis of the historical developments in the field, interconnections with other fields, current significant issues and practices (including ethics), and advanced methodology and/or statistics relevant to the field. The content may vary according to which issues are significant at the time, according to the special expertise of the staff (including visiting scholars and distinguished business leaders) and according to specific needs from thesis proposals.

Courses: BS62, BS83

Credit Points: 12 Contact Hours: 3 per week

■ HRP100 INTERNATIONAL INDUSTRIAL RELATIONS

The main structures, processes and context relevant to industrial relations; the different ways in which industrial relations have developed and operate. The comparative method: Japan, Sweden and Britain as industrial relations models.

Course: BS74, IF64

Credit Points: 12 Contact Hours: 3 per week

■ HRP102 HUMAN FACTORS IN QUALITY

Quality: an issue about business and people; leadership for quality improvement; motivation for quality improvement; paradigm shift; business as teamwork; quality improvement and human resources; employee participation strategies; training and education; ergonomics, technology and a human environment; quality of products and services.

Course: BS77, IF69

Credit Points: 6 Contact Hours: 3 per week

■ HRP103 INDUSTRIAL RELATIONS STRATEGIES & POLICIES

Examination of policy formation in industrial relations at national and local levels in areas including wage policies, job security, job design, bargaining structure and union matters.

Course: BS74, IF64

Credit Points: 12 Contact Hours: 3 per week

■ HRP104 INDUSTRIAL RELATIONS PRACTICES

Industrial relations practices and policies; research techniques for industrial relations issues, case research, preparation and presentation; institutional framework of industrial relations practices in Australia.

Course: BS74

Credit Points: 12 Contact Hours: 3 per week

■ HRP105 INDUSTRIAL RELATIONS PROCESSES

Negotiation practices in industrial law; detailed study of law relating to trade unions and employer organisations; current developments in industrial law.

Course: BS74

Credit Points: 12 Prerequisite: HRP104 Contact Hours: 3 per week

■ HRP106 INDUSTRIAL RELATIONS & SOCIETY

Economic and political context pertinent to industrial relations; aspects of theories of political economy related to labour and production; issues in political and economic strategies and policies relevant to industrial relations, for example, social welfare, income distribution and unemployment.

Course: BS74, IF64

Credit Points: 12 Contact Hours: 3 per week

■ HRP107 INDUSTRIAL RELATIONS THEORY

The resolution and regulation of conflict in work and employment; theories of collective organisation; bipartite and tripartite schema of labour market regulation and workplace process.

Course: BS74

Credit Points: 12 Contact Hours: 3 per week

■ HRP110 HUMAN RESOURCE MANAGEMENT

The importance of human resource management for organisational effectiveness and the quality of work life; human resource management from multiple constituency, functional and strategic perspectives; uses an open systems model to introduce some of the key processes of personnel management at a theoretical and skill level; fosters knowledge, analytical and operational competencies; topics include: human resource management models, HRM and organisational strategy, human resource planning/job analysis, recruitment and selection, training and development, equity and career management.

Courses: BS74, BS78, BS81, IF64

Prerequisites: HRN104 or HRP107

Credit Points: 12 Contact Hours: 3 per week

■ HRP111 QUALITY SYSTEMS MANAGEMENT

Quality management principles and systems put a new perspective on management theories and practices; introduction to management theories and concepts; relation to and impact on strategic management of the range of quality issues.

Course: BS77, IF69

Credit Points: 12 Contact Hours: 3 per week

■ HRP112 MANAGEMENT OF SERVICE QUALITY

Application of quality management principles to services and processes in service operations and organisations; marketing; differentiation of services from products; implications for management.

Course: BS77, IF69

Credit Points: 12 Contact Hours: 3 per week

■ HXR111 SAFETY & INDUSTRIAL RELATIONS

Current systems and practices in occupational safety and health programs. Industrial relations system in Australia and the management techniques which may be employed to create a good industrial relations climate on a site or in an industry.

Course: CE21

Credit Points: 7 Contact Hours: 2 per week

■ HUB002 CONTEMPORARY MORAL PROBLEMS

The central questions of applied ethics and moral philosophy through an analysis of contemporary issues: uses of technology, genetic engineering, nuclear energy, overpopulation, environmentalism, war, terrorism, civil disobedience, pacifism, racism, sexism, abortion, euthanasia, suicide and sexuality.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ HUB003 PHILOSOPHY & NURSING 1

A general introduction to philosophical questions and reasoning. Students have the opportunity to examine the ways in which personal beliefs and values impact on the nature of human beings and on nursing practice. Topics include: the nature of philosophy and political philosophy; the concept of personhood; spirituality and caring; critical thinking in nursing practice.

Course: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ HUB004 PHILOSOPHY & NURSING 2

Exploration of bioethics providing a foundation for the nursing professional in the handling of moral dilemmas intrinsic in the provision of health care. Topics include: introduction to ethics; bioethics in the social context; the process of moral decision making; ethics and professional nursing practice.

Course: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ HUB005 SOCIAL ETHICS & HUMAN RELATIONSHIPS

Philosophical and pedagogical issues underpinning the human relationships dimension of classroom practice and school cultures (eg. concept of personhood, the nature of love, power, desire, human rights); sociocultural factors and changes generating moral dilemmas in society; case studies of moral issues and moral decision-making; the ethics of teaching controversial issues and matters such as indoctrination and censorship in the context of human relationships education in the Queensland education system.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB007 HEALTH & ETHICS

An introduction to ethics within a health care context. Particular focus on the role of health care educators exploring the ethical challenges confronting them and the ways in which they may cultivate moral sensitivity as part of community 'well-being'.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB201 PEOPLE & THE NATURAL ENVIRONMENT

The geomorphological systems which are creating the surface of the earth and with which human systems interact; the probable effects of the interaction of human and physical systems.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB202 INTRODUCTION TO GEOGRAPHY

The nature and purpose of geography in terms of its conceptual structure and enquiry approaches; technologies, methods, skills used by geographers.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB207 ENVIRONMENTAL HAZARDS

The nature of hazard, risk and disaster; origins of hazards; nature of disaster; influences on the perception of risk; disaster prediction, preparation, response and recovery strategies.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

Prerequisite: HUB201

■ HUB311 THE STUDY OF HISTORY

Provides an introduction of some of the key issues inherent in the study of history. Considers the role and importance of history for contemporary society and examines differing theories of history; considers the nature of the New History and evaluates the importance of historical studies in the socialisation process.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ HUB312 ASIAN STUDIES

The nature of traditional Asian societies, the interface between occidental and oriental cultures both historically and in a contemporary context, and the emergence of modern Asian societies. Specifically designed for secondary school teachers with limited knowledge of Asia and Asian issues.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ HUB313 AUSTRALIAN STUDIES

The background to settlement; attitudes and beliefs of early settlers and the extent to which these influenced the development of colonial society; European civilisation and the Aborigine; the origins of an Australian stereotype and development of an ethos; nationalism and federation, Australia between the wars; Australia since World War II; urbanisation and the rights of the individual.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB321 CONTEMPORARY INDONESIA

Influence of the physical environment on population densities and land use systems; ethnic groups, historical survey from pre-European times to independence; agricultural systems; religion; mining and manufacturing; politics since independence; problems for the future; the Indonesian language.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ HUB419 LOTE 2

Focuses on furthering students' proficiency in a LOTE using communicative teaching techniques as outlined in the ALL guidelines. The major emphasis of the teaching program, expressed at an holistic level, relates to communication. Learners should be able to compose and comprehend a LOTE in both written and spoken modes in a range of genres and contexts and at a higher level of complexity than LOTE, Level 1. This is done through lectures, workshops, tutorials and language tapes.

Course: ED41

Credit Points: 12 Contact Hours: 3 per week

Prerequisite: HUB418

■ HUB449 LOTE 3

At this level students are able to deal with more complex sociocultural information. In addition, they

broaden their target language resource as well as develop an ability to use it; use more complex language structures and broader vocabulary; develop fluency; expand and fine-tune registers, genres, etc. and develop more theoretical/abstract discourse as the need arises in activities related to content.

Course: ED41 Prerequisite: HUB419
Credit Points: 12 Contact Hours: 3 per week

HUB600 AUSTRALIAN SOCIETY & CULTURE

Historical, political, economic and cultural information about Australia and Australians; egalitarianism; religion, frontiers and rural Australia; the historical and future role of technology in Australia.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB601 HUMAN IDENTITY & CHANGE

What it means to be human; ways human identities (eg. cultural, sexual, professional) are created and transformed; issues of identity, morality and change confronting human units in their encounters with the demands of contemporary life.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB602 THE HUMANITIES TRADITIONS

Humanities traditions; current debates about the role of humanities in society; adopts a history of ideas approach in considering contributions of major writers from both western and eastern civilisations.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB603 TEXTS & INTERPRETATION

Active analysis of various texts selected from a cross-section of contexts, genres and media; contemporary methods of textual analysis and critical approaches to cultural studies; processes involved in the coding and decoding of signs; forms of narrative and the structuring of experience; the role of unconscious mental processes in the production and interpretation of texts; textual representations of gender.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB610 APPROACHES TO ASIA/PACIFIC BASIN STUDIES

General introduction to the history and emerging political economy of the Asia/Pacific region; historical core/periphery structures; the ascent and decline of powerful imperial and new Asian cores such as Japan; systemic and anti-systemic movements and Australia's particular role in this region.

Courses: ED50, ED51, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB611 INDONESIAN SOCIAL GEOGRAPHY

Indonesia's physical environment, human settlement and land use patterns; a historical profile; ethnic diversity, religious beliefs and political perspectives.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB612 MODERN INDONESIAN STUDIES

An understanding of contemporary Indonesia; regional political and economic influences including ASEAN; domestic politics; demographic issues; Australia-Indonesian relationships.

Courses: ED50, ED51, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB613 SOCIAL GEOGRAPHY OF THAILAND

A critical understanding of the geography and history of Thailand; its cultural and social diversity; geographical influences; the situation of cultural minorities; traditional agricultural systems; ancient and modern history; religious beliefs and practices.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB615 MODERN CHINA & JAPAN

Historical developments in China and Japan during the nineteenth and twentieth centuries; the sophistication and complexity of Chinese and Japanese societies; historical evidence to examine commonly held stereotypes of China and Japan; evaluates the recent history of the area.

Courses: ED50, ED51, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB617 WOMEN, AID & DEVELOPMENT

Challenges existing notions of development; evaluates current models of development and aid in terms of their implications for women; suggests that real development for women and their dependents requires a woman-centred approach.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB618 ASIAN WOMEN: TRADITION, COLONISATION & REVOLUTION

Uses case studies to provide a broad analysis of Asian women's experiences of tradition, colonialism and revolution; highlights the linkages between traditional culture, colonialism and revolution; provides an appreciation of both the historical experiences and some of the contemporary concerns of Asian women.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB619 PACIFIC CULTURE CONTACT

Key concepts including mobility, religion, morality, leadership, civilisation, society, change and continuity; develops an appreciation of culture and sensitivity towards those groups or individuals who do not share a particular cultural heritage; case studies and comparative analysis focus on the people of the Pacific at the time of initial European contact.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB620 THE PACIFIC SINCE 1945

Analyses the link between culture and history in a post-contact context of change and continuity in the contemporary Pacific; overviews the events since 1945 that are important in the lives of Pacific Island people; presents key concepts including mobility, adaptation, change, tradition, continuity, modernisation, conflict and independence.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB621 NORTH AMERICAN STUDIES

A comparative approach to the histories of Canada, the United States and Mexico; key themes include patterns of early settlement, the development of political institutions, the treatment of minorities, and the interaction of these three nations up to the present.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

HUB622 LATIN AMERICAN STUDIES

Uses case studies dealing with Latin American history and political economy from pre-conquest period to the present day; focuses on US/Latin American relations

and contemporary systemic/anti-systemic cases such as the national security state doctrines of authoritarian Chile/Argentina and radical Cuba and Nicaragua.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB623 ASIA/PACIFIC POLITICAL STUDIES

Studies the structural and ideological bases of Asia/Pacific leading countries within a broad world system overview; special emphasis on political models of development and cultural studies; case studies of systemic (eg. Taiwan) and non-systemic models (eg. NPA) are undertaken.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB624 ADVANCED SEMINAR IN ASIAN/PACIFIC STUDIES

Provides opportunities for studies in depth on selected topics relating to Asian/Pacific Studies. Normally taken by students in their third or fourth year (honours), the unit varies in content from semester to semester depending upon the availability of staff and other resources. Students may enrol in the unit more than once with the permission of the course co-ordinator.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB625 AMERICAN LITERATURE

Concentrates principally on twentieth century American literature in the years preceding World War II and in the post-war construction period to the present. Particular emphasis on major pre-occupations in literature and on the ways in which writers have responded to, and interpreted, political and social currents in the pre- and post-World War II periods.

Courses: ED50, HU20

Credit Points: 12 Contact Hours: 3 per week

■ HUB626 CONTEMPORARY SOUTH-EAST ASIA

An introduction to South-East Asia as a region focussing on geographic characteristics, recent political developments, population and urban studies, economic development and social and cultural characteristics.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB627 AUSTRALIA AND THE SOUTH PACIFIC

Critical analysis of the history of Australian bilateral and multilateral links with the Pacific islands region, including Pacific frontier theory, sub-imperialism, colonial rule and contemporary dialogue over aid, trade, regionalism, defence, cultural exchange and migration. The unit will focus on events from 1788 to the present.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB628 MODERN JAPAN

The history of nineteenth and twentieth century Japan; including the range of contemporary issues confronting Japan including those associated with Japan's increased power in the Asia/Pacific region. Where possible primary source documentation is used to enhance historical understanding.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB629 MODERN CHINA

A historical survey of China during the nineteenth and twentieth centuries. The primary focus will be on the decline of the traditional Chinese state and the impact

of foreign imperialism. Stress is placed on the growth of nationalism and the Chinese revolution. The modernisation of Chinese culture, the position of women and the forces which have brought China to resume its place as the major Asian power.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB630 GEOGRAPHY OF EAST ASIA

A geographical interpretation of the East Asia region, covering China, Japan and Korea. This includes an examination of the region's physical landscapes, human population distribution, demographic and cultural change, environmental issues and the role of the East Asian countries in the geopolitics of the Asia-Pacific region.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB647 IN-COUNTRY SUMMER SCHOOL OR EQUIVALENT

This unit is held in residence at a designated foreign university for four to six weeks of concentrated learning; aims to enhance student's proficiency in the four macro skills; increases students understanding of the cultural context in which the target language is used.

Courses: BS50, ED50, HU20

Credit Points: 24

■ HUB648 IN-COUNTRY SEMESTER OR EQUIVALENT

Students follow an approved course of study at a designated foreign university for a semester. The unit aims to improve language skills in an immersion situation and at the same time provide the cultural experience of living in the country of the language being studied for an extended period of time.

Course: ED50, HU20

Credit Points: 48

■ HUB649 ADVANCED SEMINAR IN EUROPEAN STUDIES

Provides opportunities for studies in depth on selected topics relating to European Studies. Normally taken by students in their third or fourth year (honours), the unit varies in content from semester to semester depending upon the availability of staff and other resources. Students may enrol in the unit more than once with the permission of the course co-ordinator.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ HUB650 INTRODUCTORY INDONESIAN 1

An introduction to the development of the macro skills of speaking, listening, reading and writing in the Indonesian language; examines customs and language etiquette and non-verbal communication.

Courses: BS50, ED50, ED51, HU20, IF36

Credit Points: 12 Contact Hours: 4 per week

■ HUB651 INTRODUCTORY INDONESIAN 2

Develops macro skills in the Indonesian language; focuses on socio-cultural aspects of Indonesia; analytically studies the Indonesian language.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB641

Credit Points: 12 Contact Hours: 4 per week

■ HUB652 INDONESIAN LANGUAGE & CULTURE 1

Students are expected to: communicate at an elementary level in Indonesian; analytically study the language; study traditional Indonesian literature.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB642

Credit Points: 12 Contact Hours: 4 per week

■ HUB653 INDONESIAN LANGUAGE & CULTURE 2

Develops fluency in communicative activities; traditional and contemporary Indonesian literature.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB643

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB654 INDONESIAN LANGUAGE & CULTURE 3

Develops a high degree of proficiency in Indonesian; students are expected to understand the complex language structure; Indonesian media sources.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB644

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB655 INDONESIAN LANGUAGE & CULTURE 4

Develops maximum proficiency in Indonesian; emphasizes fine tuning of speaking, listening, reading and writing; studies of Indonesian media sources.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB644

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB660 INTRODUCTORY JAPANESE 1

Students with little or no previous experience in the Japanese language are introduced to the four skills of listening, speaking, reading and writing; hiragana script is studied from the outset and some simple kanji are introduced; appreciation of cultural aspects.

Courses: BS50, ED50, ED51, HU20, IF36

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB661 INTRODUCTORY JAPANESE 2

Develops the four skills of listening, speaking, reading and writing using a communicative approach; katakana is introduced; students read controlled material incorporating hiragana, katakana and an increasing number of kanji; cultural issues are integrated with relevant language situations.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB660

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB662 JAPANESE LANGUAGE & CULTURE 1

This unit is for students who have studied Japanese for four to five years at secondary school; consolidates and further develops the four skills of listening, speaking, reading and writing through an integrated approach; cultural aspects in language situations.

Courses: BS50, ED50, ED51, HU20, IF36

Prerequisites: Year 12 Japanese or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB663 JAPANESE LANGUAGE & CULTURE 2

Consolidates and develops listening, speaking, reading and writing skills through an integrated approach; students read material written in hiragana, katakana and an increasing number of kanji; cultural aspects are incorporated within the relevant language situations.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB662

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB664 JAPANESE LANGUAGE & CULTURE 3

An intermediate level unit aiming to impart an understanding of the values stipulated for Japanese culture and society; enhances students' language skills.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB663

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB665 JAPANESE LANGUAGE & CULTURE 4

Continues the theme of understanding the values stipulated for Japanese culture and society; enhances students' language skills.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB664

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB666 JAPANESE LANGUAGE & CULTURE 5

Focuses on the Japanese media; extends skills in listening, speaking, reading and writing to an advanced level by exposure to natural language.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB665

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB667 JAPANESE LANGUAGE & CULTURE 6

Focuses on the media; extends students' linguistic skills to a level where they can access authentic media resources, express opinions and discuss issues.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB665

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB670 INTRODUCTORY FRENCH 1

Designed for students who have had little or no previous experience of French; develops a basis for further language acquisition and stresses oral/aural skills with some introduction to reading comprehension and writing in French.

Courses: BS50, ED50, ED51, HU20, IF36

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB671 INTRODUCTORY FRENCH 2

Develops a range of language skills; stresses oral/aural skills; extends reading comprehension and writing in French.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB670

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB672 FRENCH LANGUAGE & CULTURE 1

Designed to meet the needs of students who have completed Year 12 French (or equivalent), focuses on speaking, listening and reading skills.

Courses: BS50, ED50, ED51, HU20, IF36

Prerequisites: Year 12 French or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB673 FRENCH LANGUAGE & CULTURE 2

Attention is paid to writing skills; emphasis on speaking, listening and to a lesser extent reading; aims to help students communicate orally with ease and confidence before embarking on a more sustained study of written French.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB672

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB674 FRENCH LANGUAGE & CULTURE 3

Further develops the four macro skills. Study of short stories from France and other French speaking places (Quebec, Pacific Islands, West Indies).

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB673

Credit Points: 12 **Contact Hours:** 4 per week

■ HUB675 FRENCH LANGUAGE & CULTURE 4

Equips students to debate issues or discuss texts, visual

and written using verbal and non-verbal means; attention is paid to the four macro skills; the French media and how news is constructed in France.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB674

Credit Points: 12 Contact Hours: 4 per week

■ HUB676 FRENCH LANGUAGE & CULTURE 5

Students are introduced to modern French theatre; continues the development of the four macro skills.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB675

Credit Points: 12 Contact Hours: 4 per week

■ HUB677 FRENCH LANGUAGE & CULTURE 6

Introduces the works of selected French writers; two hours a week are spent on a study of French for academic purposes.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB675

Credit Points: 12 Contact Hours: 4 per week

■ HUB678 FRENCH FOR BUSINESS AND THE PROFESSIONS

Equips students to use French in business or professional contexts. The focus is on: the professional experience of guest speakers; background information needed for survival in the French-speaking business world; and everyday business documents.

Courses: BS50, HU20, IF36

Prerequisites: HUB675 (4 or better)

Credit Points: 12 Contact Hours: 3 per week

■ HUB680 APPROACHES TO AUSTRALIAN STUDIES

Introduces the Australian Studies major; focuses on cultural themes within Australian history; includes an examination of the shock felt by pre-1850s immigrants, racial conflict and naturalisation processes.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB682 SOCIAL MOVEMENTS IN AUSTRALIA

New social movements in Australia since the 1960s; includes green, women's, peace, Aboriginal and Third World development movements; comparison with overseas and old social movements.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB683 AUSTRALIAN GEOGRAPHICAL STUDIES

Expands the geographical understanding of students into the cultural area, enabling them to appreciate the significance and interrelationships of issues of people, land, resources, energy and technology.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB685 RESOURCES, PLANNING & DEVELOPMENT

Considers the various development options open to Australia. Attention is paid to Australia's economic history and current economic structures.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB687 CONTEMPORARY MORAL PROBLEMS

Introduction to applied ethics and moral philosophy through an analysis of a range of contemporary issues within an Australian context, eg. uses of technology, genetic engineering, nuclear energy, overpopulation,

environmentalism, war, terrorism, civil disobedience, pacifism, racism, sexism, abortion, euthanasia, suicide and sexuality.

Courses: HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB690 THEMES IN AUSTRALIAN HISTORY

Covers historical and cultural material on Australian mythologies and historiographies; European and Aboriginal understandings of the land; Aboriginal mapping and art; the construction and importance of cities; ways in which notions such as motherhood were enlisted in nationalism.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB691 WOMEN'S PAST - WOMEN'S HISTORY TO FEMINIST HISTORIOGRAPHY

Challenges a masculine version of history; considers the historiographical debate on the development of women's history in the Australian context; explores a range of issues including case studies of women's issues and experiences; encourages the process of documenting women's history via testimony.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB692 CONSPIRACY & DISSENT IN AUSTRALIAN HISTORY

Uses case studies to reflect conspiracies as well as protest movements in nineteenth and twentieth century Australia; includes nineteenth century land grab conspiracies; Aboriginal resistance; anti-war movements; the Petrov affair; the 1975 dismissal.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB693 AUSTRALIAN RACE RELATIONS

Race relations within Australia before and after British settlement and locates material within a comparative international framework. Theories of race, trade routes, racial violence and resistance.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB694 AUSTRALIAN POLITICS

The political life of the Australian citizen; the democratic political traditions and institutional bases of Australian political life; the process by which political decisions get made at all levels of Australian politics.

Courses: HU20, IF36, ED50

Credit Points: 12

Contact Hours: 3 per week

■ HUB700 ABORIGINAL & TORRES STRAIT ISLANDER CULTURE STUDIES

An appreciation of the two distinct indigenous cultures of Australia; how external forces to Aboriginal and Torres Strait Islander cultures caused social, economic and political changes; traditional family life and organisation.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ HUB701 ABORIGINAL & TORRES STRAIT ISLANDER LITERATURE

Despite the fact that it represents the indigenous culture of Australia, the oral tradition of Aborigines and Torres Strait Islanders has only recently begun to be appreciated. By examining this tradition, its continuation to the present day and its transformation into published texts, this unit seeks to open the eyes of students to a different world view.

Courses: ED50, HU20, IF36

Credit Points: 12

Contact Hours: 3 per week

■ **HUB702 THE AUSTRALIAN DREAMING: THE INDIGENEOUS CONSTRUCTION**

A philosophical overview of Aboriginal and Torres Strait Islander culture; draws upon a variety of conceptual approaches; examines theories which underpin indigenous constructions of reality.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB703 POLITICS & POLITICAL CULTURE IN INDIGENEOUS AUSTRALIA**

Addresses the issues underlying the multifaceted world of indigenous politics; land rights; language rights; health; education; fishing rights and heritage.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB710 AUSTRALIAN LITERARY STUDIES**

A critical appreciation of various texts from Australia's literary tradition; considers the impact of social values, political and artistic movements upon literature production and genres; the dichotomy of mainstream and marginalised writing in various groups and periods of Australia's cultural traditions.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB711 AUSTRALIAN WOMEN'S WRITING**

The literary contribution of Australian women writers from the nineteenth and twentieth centuries to Australian culture and society; focuses on a number of significant texts that raise crucial issues in their representation of women's lives and identities.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB712 AUSTRALIAN CHILDREN'S & ADOLESCENT FICTION**

Children's and adolescent novels within the cultural context of nineteenth and twentieth century Australia; focuses on textual analysis of major generic types; considers issues such as race, gender, class and regionalism in fiction for young Australians.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB713 ADVANCED SEMINAR IN AUSTRALIAN STUDIES**

Provides opportunities for studies in depth on selected topics relating to Australian Studies. Normally taken by students in their third or fourth year (honours), the unit varies in content from semester to semester depending upon the availability of staff and other resources. Students may enrol in the unit more than once with the permission of the course co-ordinator.

Courses: HU20, IF36, ED50

Credit Points: 12 Contact Hours: 3 per week

■ **HUB720 APPROACHES TO EUROPEAN STUDIES**

A broad introduction to the major studies sequence in European studies; uses historical and literary perspectives to highlight major themes in the development of European society and culture.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB721 THE CLASSICAL WORLD**

The emergence and development of European society from earliest times to 500 AD; in alternate semesters it examines the major political, social and economic trends in classical Greek or Roman society.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB722 FOUNDATIONS OF MODERN EUROPE**

The formation of modern Europe from the late Middle Ages to the end of the nineteenth century; the emergence of secularism and the rise of nation states.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB723 EUROPE IN THE TWENTIETH CENTURY**

Considers traumatic events of the twentieth century; emphasises significant trends in political, economic and social changes; examines the implications of the momentous changes which have taken place in Europe over the last few years.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB724 NINETEENTH CENTURY ENGLISH LITERATURE & CULTURE**

Focuses on two major literary genres: the novel and poetry; their evolution and variety in a time of profound economic, political and social change in England between 1790 and 1880; examines the variety of response of a number of literary artists to these changes and the ways narrative and verse forms were adapted and evolved.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB725 TWENTIETH CENTURY ENGLISH LITERATURE & CULTURE**

Critical analysis of key British literary texts of the twentieth century (prose, poetry, drama); the theoretical and cultural movements that underpin them.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB726 EUROPEAN LITERATURE & SOCIAL CHANGE**

Uses a broadly defined European perspective to explore how literary texts respond to, influence and are in turn influenced by social and cultural forces; set texts are explored from a range of thematic perspectives: industrialisation and the impact of new technologies, war and civil unrest, political power and citizenship, colonialism and post-colonialism.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB727 EUROPEAN LITERATURE & IDENTITY**

Explores selected European literary texts from different periods and regions with a focus on identity eg. gender, individual development, sexual and social relations, normality and abnormality, crime and the problems of evil, imagination and fantasy.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB728 POPULAR LITERATURE**

Explores the psychological, political and ideological functions of popular literature by studying texts from different popular genres (eg. romance, crime fiction; spy thrillers; fantasy; science fiction; family sagas; horror; comics); methods of analysing the historical development of generic forms relating to the varying social contexts in which they are produced.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ **HUB729 SHAKESPEARE IN THE MODERN WORLD**

Shakespeare is examined both in his own time and the present to analyse the dominance of this cultural icon;

emphasises recent theoretical and performance strategies in Shakespearean genre studies.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB730 WOMEN'S WRITING & REPRESENTATION

Examines ways women have been represented in literary and non-literary texts; identifies cultural contexts in which women write and are represented; examines nineteenth and twentieth century texts by European writers by and about women.

Courses: ED50, HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB735 INTRODUCTORY GERMAN 1

An introductory unit in the German language for students with little or no previous knowledge of German; equips students with some of the basic communication skills for a variety of everyday situations.

Courses: BS50, ED50, ED51, HU20, IF36

Credit Points: 12 Contact Hours: 4 per week

■ HUB736 INTRODUCTORY GERMAN 2

An intensive introductory unit in the German language; develops basic communication skills.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB735

Credit Points: 12 Contact Hours: 4 per week

■ HUB737 GERMAN LANGUAGE & CULTURE 1

Designed for students who have completed Year 12 German or its equivalent; consolidates the four language skills of reading, writing, listening and speaking; introduces students to a selection of post-war literature from German-speaking countries.

Courses: BS50, ED50, ED51, HU20, IF36

Prerequisites: Year 12 German or equivalent

Credit Points: 12 Contact Hours: 4 per week

■ HUB738 GERMAN LANGUAGE & CULTURE 2

Continues the consolidation of the four macro skills; aims to further cultural awareness through a study of some examples of contemporary German literature from East and West Germany.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB737

Credit Points: 12 Contact Hours: 4 per week

■ HUB739 GERMAN LANGUAGE & CULTURE 3

Develops linguistic competence in the German language to a higher level; equips students with the language skills necessary for more demanding linguistic interactions and situations; an introduction to a major period in the development of German culture through a study of the German enlightenment and classical and romantic German texts.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB738

Credit Points: 12 Contact Hours: 4 per week

■ HUB740 GERMAN LANGUAGE & CULTURE 4

Develops linguistic competence in the German language to a higher level; equips students with the language skills necessary for more demanding linguistic interactions; introduction to the major cultural traditions of the nineteenth century through a study of a selection of nineteenth century texts.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB739

Credit Points: 12 Contact Hours: 4 per week

■ HUB741 GERMAN LANGUAGE & CULTURE 5

Develops linguistic competence in the German language to a more advanced level by extending students' vocabulary and range of registers and expressions; introduces the culture of modernity through the literary movements of modernism, expressionism and Viennese fin de siècle and the avant-garde.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB740

Credit Points: 12 Contact Hours: 4 per week

■ HUB742 GERMAN LANGUAGE & CULTURE 6

Develops linguistic competence in the German language to a more advanced level necessary for dealing with more complex linguistic interactions and texts; provides a survey of post-war East and West German literature and a discussion of the problems of writing after Auschwitz and under the censorship.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB740

Credit Points: 12 Contact Hours: 4 per week

■ HUB750 UNDERSTANDING ETHICS

Introduces students to the theory and practice of moral decision making; covers questions such as 'Why be moral?' 'What is the good or the right?' and 'How do we make moral decisions?'; questions are related to current practical ethical dilemmas.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB751 PUBLIC & PROFESSIONAL ETHICS

The ethical dimensions of public and professional life; the ethical rights and responsibilities of the individual citizen and the State within a liberal democracy; the ethical responsibilities of institutional and professional agencies and the roles and ethical responsibilities of individual citizens in such agencies.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB752 THE JUST SOCIETY

Justice and concepts such as equity in various ethical and political traditions are applied to recent policy debates about affirmative action, the criminal justice system, political practice, health and the environment.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB753 ETHICAL DECISION-MAKING

The ways in which various decision-making practices can be morally grounded; the practical value of such procedures for human transformation and emancipation; the ways in which decision-making practices either sustain or subvert moral communities.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB754 FEMINISM & ETHICS

Ethics is one of the major areas of philosophy. It has been transformed recently by the feminist critique of traditional ethics in conventional notions of masculinity and analytical rationality, and by the development of applied ethics, notably bioethics.

Courses: HU20, IF36

Credit Points: 12 Contact Hours: 3 per week

■ HUB755 VULNERABLE IDENTITIES

Vulnerability and the experiences of persons who are vulnerable due to exploitation, abandonment, confusion or suffering and other unethical practices; ways of relating with the vulnerable; students develop a richer

appreciation of others as well as themselves.

Courses: HU20, IF36

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB756 ADVANCED SEMINAR IN APPLIED ETHICS**

Provides opportunities for studies in depth on selected topics relating to Applied Ethics. Normally taken by students in their third or fourth year (honours), the unit varies in content from semester to semester depending upon the availability of staff and other resources. Students may enrol in the unit more than once with the permission of the course co-ordinator.

Courses: HU20, IF36, ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB760 APPROACHES TO FEMINIST STUDIES**

Introduces a broad spectrum of issues related to feminist studies and to the major theoretical debates about gender in fields including literature, history, psychology, philosophy, sociology and ethics.

Course: HU20

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB772 INTRODUCTION TO POLITICS : POLITICAL IDEOLOGIES**

The political spectrum of the traditional Left-Right-Centre ideologies including Fascism; Conservatism; Liberalism; Socialism; Communism; Anarchism are discussed, along with cross spectrum ideologies such as Feminism; Imperialism; Racism; Environmentalism. The course concludes with reference to post-modernist politics and its implications for the traditional ideological spectrum.

Courses: HU20, IF36, ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB800 POLITICS & MARKETS**

Introduces major debates in political economy about mixed economy and balance between collective and individual provision; theories of production and consumption, modes of production and regulation, studies of public intervention.

Course: HU20

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB801 POLITICS & CONSUMPTION**

Forms and patterns of consumption of market and social goods, income distribution and measures of quality and level of living; concepts of social wage, theories of public revenue and organisation of public services.

Course: HU20

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB802 POLITICS & PRODUCTION**

Political economy of production: form of economic calculation and theories of value, profit and interest; ownership and control of production in market and non-market situations.

Course: HU20

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUB803 PATTERNS OF REGULATION**

Examination of regulatory strategies; political economy of economic and social compromises in advanced countries; strategies of regulation in domestic economies; case studies of media, public health, urban development and transport.

Course: HU20

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUP001 ETHICS & HUMAN RELATIONSHIPS EDUCATION**

Philosophical approaches to human relationships; moral philosophy and education; development of an integrated

and clearly articulated agreement for a philosophy of human relationship education.

Course: ED22, ED50, ED67

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUP002 PUBLIC SECTOR ETHICS**

Exploration of conceptual and theoretical issues; practical dilemmas and strategies for institutionalising ethics in the public sector.

Course: BS83

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUP003 ETHICS: THEORY & PRACTICE**

The theory and practice of moral decision-making; current ethical issues.

Course: BS30

Credit Points: 12 **Contact Hours:** 3 per week

■ **HUP004 HEALTH CARE ETHICS & BIOETHICS**

Bioethics in the social context; the process of moral decision making; ethics and professional nursing practice.

Course: BS30

Credit Points: 12 **Contact Hours:** 3 per week

■ **IFB880 PROJECT**

Students undertake a project requiring research, investigation or design of some topic or problem of interest to the profession.

Courses: IF24, IF25

Prerequisites: Successful completion of units totalling not less than 120 hours of weekly contact time.

Credit Points: 24 **Contact Hours:** 2 per week

■ **IFN001 ADVANCED INFORMATION RETRIEVAL SKILLS**

This unit provides postgraduate research students with the skills to implement a through literature search in their research area and to set up a personal system for managing the references collected. The seven modules which form this unit include: using the QUT libraries; indexing and abstract services; electronic information retrieval; developing a current awareness strategy; thesis writing; personal file management; evaluating information.

Courses: BN73, BN78, PS69, SC60, SC80

Credit Points: 4 **Contact Hours:** 2 per week

■ **IFP222 PROJECT**

This unit provides students with the opportunity to gain insight and improve their understanding of quality management practices through the study of workplace quality related problems. Students are given assistance to develop their capacity to apply ideas and knowledge gained during the course and to improve their communication and writing skills in furnishing a detailed project report.

Course: IF69 **Prerequisites:** HRB131 or HRN105

Credit Points: 12 **Contact Hours:** 3 per week

■ **ISB170 INTRODUCTION TO COMPUTING**

The application of technologies in a teaching context; the use of writing and publishing software; graphics design software; numerical software tools; personal and project management tools; communications technologies and computer peripherals used in the production of computer-generated materials.

Courses: CN41, CN43

Credit Points: 6 **Contact Hours:** 2 per week

■ **ISB180 COMPUTER APPLICATIONS**

The role of computer and information systems in the context of the building and construction industries. It includes an overview of the terminology and concepts of computing, communications, and information

systems technologies and an introduction to computer applications packages such as microcomputer spreadsheets software.

Courses: CN31, CN32, CN33

Credit Points: 4 Contact Hours: 2 per week

■ ISB183 INTRODUCTION TO COMPUTERS IN PLANNING

The role of computer and information systems in the context of urban and regional planning. It includes an overview of the terminology and concepts of computing, communications, and information systems technologies and an introduction to computer applications packages such as microcomputer word processing, spreadsheets and database software.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ ISB382 MICROCOMPUTER APPLICATIONS

The role of computer and information systems in the context of scientific and public health applications. It includes an overview of the terminology and concepts of computing, communications, and information systems (eg database) technologies and an introduction to computer applications packages such as microcomputer word processing, spreadsheets and database software.

Courses: LS36, PU42, PU44, and PU45

Credit Points: 8 Contact Hours: 3 per week

■ ISB393 COMPUTER BASED INFORMATION SYSTEMS

Examination of the role of computer and information systems in the context of engineering applications. It includes an overview of the terminology and concepts of computing, communications, and information systems and an introduction to computer applications packages such as microcomputer word processing, spreadsheets and data base software.

Courses: EE44 and ME45

Credit Points: 4 Contact Hours: 2 per week

■ ISB863 DATABASE THEORY & TECHNIQUES

The logical and physical models of information systems; characteristics; use of a structured query language to query existing curriculum databases and construct new ones; the sociological implications of the utilisation of public and private databases.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ ISB865 INFORMATION SYSTEM MODELLING

This unit includes the modelling of information systems; relational systems; fact oriented approaches; conceptual schema design.

Course: ED50

Prerequisite: ISB863

Co-requisite: ISB863

Credit Points: 12 Contact Hours: 3 per week

■ ISB892 BUSINESS COMPUTING

The role of computer and information systems in the context of business and commercial applications. It includes an overview of the terminology and concepts of computing, communications, and information systems technologies and an introduction to issues related to the design, development, and management of information systems. It also includes an introduction to computer applications packages such as microcomputer word processing, spreadsheets and data base software.

Courses: AA21, BS20, BS50, ED50, IF31, PU48

Credit Points: 12 Contact Hours: 4 per week

■ ISN380 INFORMATION SYSTEMS & QUALITY

Examination of the application of information systems knowledge to enhance quality management; application of quality management principles in the development of computer-based information systems.

Course: BS86, IF66

Credit Points: 6 Contact Hours: 3 per week

■ ISP811 BOOKS & PUBLISHING

Examination of the artistic and historical evolution of the book; judgment of book format through an understanding of production processes; techniques of printing; elements of the book; complexities of the publishing business.

Course: ED25

Credit Points: 12

■ ITB001 COMPUTING PRACTICE (NOTE) 1

■ ITB002 COMPUTING PRACTICE (NOTE) 2

These units are designed to coordinate the practical aspects of the lecture material presented so that students both develop essential practical skills and benefit from cross-fertilisation of the individual units.

Course: BN10

Credit Points: 6 Contact Hours: 3 per week

■ ITB101 LABORATORY 1 (COMPUTING ENVIRONMENTS)

Professionals in information technology must have an ability to work in a variety of computing environments and to utilise general application packages. This unit provides students with a practical experience in a range of computing environments from personal computers to mainframes. Students are encouraged to learn to work independently, adhere to appropriate standards, make use of relevant documentation and document their work in the form of structured technical reports. Students learn to connect to services directly and via networks, to use the basic functions of typical operating systems including file and directory manipulation, customisation of environments and the principles of backing-up and recovery. Students use the basic functions of existing databases, wordprocessors and spreadsheets.

Courses: IF23, IF33, IF38, IF54, IT20

Credit Points: 12 Contact Hours: 3 per week

■ ITB102 LABORATORY 2 (COMPUTER APPLICATIONS)

Professionals in information technology must have an ability to design and implement computer solutions for various applications using a variety of computing languages, systems and environments. Students are provided with a practical experience in the design, implementation and testing of software systems. Emphasis is on design documentation, user documentation, programming style, test documentation, the use of diagnostic aids, software monitors, analysis of results and test coverage, and the oral and written presentation of results.

Courses: IF23, IF33, IF38, IF54, IT20

Prerequisites: ITB101, ITB210, ITB410

Credit Points: 12 Contact Hours: 3 per week

■ ITB210 FORMAL REPRESENTATION

This unit provides a foundation with regard to the specification and implementation of information systems. As such, it gives an introduction to topics built on subsequent units, notably those in database and system analysis and design. Topics covered include models; facts; sets; relations; relational calculus; SQL; defining the database; referential integrity; knowledge; schemata; state transitions.

Courses: IF23, IF33, IF38, IF54, IT20

Credit Points: 12 Contact Hours: 3 per week

■ ITB220 DATABASE DESIGN

Covers the conceptual design of a database and its implementation in either relational, network or hierarchical logical file design; network and hierarchical database systems in detail; additional relational system techniques.

Courses: IF33, IF38, IF54, IT20, IT40

Prerequisite: ITB210

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB221 LABORATORY 3 (COMMERCIAL PROGRAMMING)

Extends student skills in program design and implementation by applying them to typical commercial problems through a widely used third generation language. The task-oriented approach supplies a vehicle for reinforcing students' knowledge of elementary design and planning theory.

Courses: BS50, IF33, IF38, IT20

Prerequisite: ITB210 & ITB410

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB222 SYSTEMS ANALYSIS & DESIGN 1

The development of basic systems development skills by teaching a methodology and techniques of systems analysis and design and gives an introduction to all phases of the classical systems development life cycle. The aim is to give students a balanced overview of the process of analysing and designing information systems, while ensuring that students develop the necessary skills to apply the major techniques to simple problems. Emphasis is placed on the practical application of techniques to real-world problems.

Courses: BS50, IF38, IT20

Prerequisites: BSB103, ITB210

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB223 LABORATORY 4 (4GL PROGRAMMING)

Introduction to the role of application generators and Fourth Generation Language technology in developing information systems. As well as using these tools to create programs from detailed specifications, students develop standards for comparing the applicability of one environment to another.

Courses: IF33, IF38, IT20 **Prerequisite:** ITB220

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB224 SYSTEMS ANALYSIS & DESIGN 2

Expands upon the systems analysis and design techniques introduced in ITB222. Also, alternative approaches practiced in industry and other topics of importance are introduced. The aim is to provide students, who already have an overview of the unit, with an in-depth knowledge of key areas of systems analysis and design. Emphasis is placed on the practical application of techniques to problems.

Courses: IF33, IT20

Prerequisite: ITB222

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB230 PROJECT

The ability to apply knowledge and skills to real-life situations is essential for information systems professionals. A six month project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills.

Courses: IF33, IF38, IT20

Prerequisite: Successful completion of at least 72 credit points from the Information Systems major or in IF33.

Credit Points: 12

■ ITB231 APPLICATIONS DEVELOPMENT

Synthesises techniques and theory learned in earlier units by providing an opportunity for students to inte-

grate these skills through team-based development of a major online system processing a database. Requires students to re-examine major design, programming and planning issues within the context of a 4GL software environment.

Course: IT20

Prerequisites: ITB223, ITB224

Credit Points: 12

Contact Hours: 3 per week

■ ITB232 DATABASE MANAGEMENT

Examination of the functions of database management systems; query optimisation; concurrency control; transaction processing; crash recovery; security and integrity; the fundamentals of physical file organisation.

Courses: IF33, IT20, IT40

Prerequisites: ITB233 or ITB421

Credit Points: 12

Contact Hours: 3 per week

■ ITB233 FILE STRUCTURES

Examination of file structures and their processing; The various forms of persistent storage (conventional disks, tapes and CDs); different approaches to file indexing; tree structured storage; the cost of accessing these structures is estimated.

Course: IF38, IT20, IT40

Prerequisites: ITB220, ITB221

Credit Points: 12

Contact Hours: 3 per week

■ ITB235 MULTIMEDIA SYSTEMS TECHNOLOGIES

Image, sound and video now make up a new dimension in computer stored databases. The technical problems of dealing with these new media in a digital way pose a challenge to information technologists. This unit introduces interactive multimedia system technologies and provides students with the basic knowledge required to contend with existing and future technical problems. Students integrate this knowledge in creating an interactive multimedia system.

Course: IT20

Credit Points: 12

Contact Hours: 3 per week

■ ITB236 OBJECT-ORIENTATED ANALYSIS & DESIGN

The goal is to develop basic skills in methodologies and techniques of object-orientated analysis and design. Covers all phases of the object-orientated software development life cycle.

Course: IT20

Credit Points: 12

Contact Hours: 3 per week

■ ITB240 PROJECT

The ability to apply knowledge and skills to real-life situations is essential for information systems professionals. A six month project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Information Systems major.

Credit Points: 12

■ ITB241 INFORMATION SYSTEMS MANAGEMENT

Information systems practitioners have responsibility for the acquisition of computer hardware and software and for its effective and efficient use. Many practitioners also have responsibility for managing other information systems personnel. The knowledge and skills relevant to these planning, organising and staffing responsibilities is covered.

Courses: IF33, IF38, IT20

Prerequisites: Completion of at least 60 credit points from the Information Systems major.

Credit Points: 12

Contact Hours: 3 per week

■ ITB242 DECISION SUPPORT SYSTEMS

There is increasing pressure for computer use to be closely aligned to organisational goals. Associated with this is an increasing emphasis for the computer to assist directly in the decision making process. This unit addresses issues relating to these factors.

Courses: BS50, IT20

Prerequisite: ITB222

Credit Points: 12

Contact Hours: 3 per week

■ ITB243 KNOWLEDGE-BASED SYSTEMS

Examination of the requirements for and development of knowledge-based systems in modern mainstream computing; provides an understanding of the techniques used in capturing and automating knowledge; and gives practical experience in designing, implementing and maintaining knowledge-based systems using a variety of software tools.

Course: IT20

Prerequisite: ITB222

Co-requisite: ITB220

Credit Points: 12

Contact Hours: 3 per week

■ ITB244 SPECIAL TOPIC 1**■ ITB245 SPECIAL TOPIC 2**

These units are designed to allow for the significant development of, or emphasis in, business computing not dealt with in other course units. Selected topics and study areas are offered as required and when the necessary expertise is available. See School of Information Systems announcements for details of topics being offered.

Course: IT20

Prerequisites: See School announcements.

Credit Points: 12

Contact Hours: 3 per week

■ ITB246 UNIX & C

Introduction to the Unix operating system environment and to the C programming language. It covers the basics of both, and advanced topics relevant to software development under Unix and C. Emphasis is placed on the production of high quality software and documentation.

Course: IT20

Prerequisites: ITB410, ITB412

Credit Points: 12

Contact Hours: 3 per week

■ ITB247 PROJECT

This unit provides for students to undertake a two semester project. The work in one semester can be followed up in the second, or students can extend their practical skills through the second semester project.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Information Systems major.

Credit Points: 12

■ ITB249 THEORETICAL FOUNDATIONS OF DATABASE SYSTEMS

Covers the theoretical foundations for the design, analysis and the unprocedural languages used in modern database systems; set theory; abstract algebra and theory of algorithms.

Course: IT20

Prerequisite: ITB220

Credit Points: 12

Contact Hours: 3 per week

■ ITB310 INFORMATION MANAGEMENT 1

The concept of information management has emerged from a number of disciplines which have become more associated as a result of the development of information technologies. This unit reviews this development, and introduces the principles of information management as they are presently defined. It therefore identifies the basic processes involved in handling information in the context of an information life cycle, and introduces the concept of managing information as an organisational resource.

Courses: IF33, IF38, IF54, IT20

Credit Points: 12

Contact Hours: 3 per week

■ ITB320 LABORATORY 3 (DATABASE APPLICATIONS)

Graduates from the course are expected to have skills in the creation, maintenance and utilisation of databases of various types. This unit gives them practical exposure to the tasks involved using higher level applications programming environments.

Courses: IF52, IF54, IT20

Prerequisite: ITB102

Co-requisite: ITB220

Credit Points: 12

Contact Hours: 3 per week

■ ITB321 SYSTEMS ANALYSIS

Information management draws on systems analysis as a central resource. Many of the techniques applied in systems analysis translate to information management. This unit provides an introduction to all phases of the classical systems development life cycle: this gives students a balanced overview of the process of analysing information systems, while ensuring that students develop the necessary skills to apply the major techniques to information management problems.

Courses: IF54, IT20

Credit Points: 12

Contact Hours: 3 per week

■ ITB322 INFORMATION RESOURCES

Examination of the ability to obtain accurate, up-to-date, business information on an ongoing basis which is today accepted as an important component of competitive success. A variety of computer and documentary sources are investigated, and information retrieval techniques are learnt.

Course: IT20

Prerequisite: ITB310

Credit Points: 12

Contact Hours: 3 per week

■ ITB323 LABORATORY 4 (INFORMATION SUPPORT METHODS)

Provides students with practical exposure to a range of methods that are used to support information management implementations, including data dictionary and repository maintenance, thesaurus construction and maintenance, and interface development for Internet tools.

Courses: IF52, IF54, IT20

Prerequisites: ITB320

Co-requisite: ITB520

Credit Points: 12

Contact Hours: 3 per week

■ ITB330 INFORMATION ISSUES & VALUES

Concepts of information and the associated technology create fundamental issues for society particularly in the legal, political and social arenas. Exploration of the development of such concepts in order to create an awareness of both the indirect and direct impacts of information and the associated technology. Such an awareness is crucial in the effective direction of management of information.

Courses: IF52, IF54, IT20

Prerequisite: ITB322

Credit Points: 12

Contact Hours: 3 per week

■ ITB331 INFORMATION MANAGEMENT 2

Covers auditing information resources in an organisation; relating information provision to the information needs of end users, as well as to the strategic objectives of organisations.

Courses: IF52, IF54, IT20

Prerequisite: ITB310

Credit Points: 12

Contact Hours: 3 per week

■ ITB340 PROJECT

The ability to apply knowledge and skills to real-life situations is essential for information management professionals. A one semester project, under academic supervision, is considered useful in developing students' ability to apply their skills.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Information Management major.

Credit Points: 12

■ **ITB341 INFORMATION MANAGEMENT 3**

Pulls together many of the themes previously identified in the course of the information management major, with particular reference to information as a commodity and its use in strategic planning and enterprise information modelling. Functions and practices of management that relate to provision of information services, and utilisation of technology to support them.

Courses: IF52, IF54, IT20 **Prerequisite:** ITB331

Credit Points: 12 **Contact Hours:** 3 per week

■ **ITB342 SPECIAL TOPIC (INFORMATION MANAGEMENT)**

Covers aspects of information management of specific interest at that time. Makes allowances for significant developments or emphasis in information management not included in the remainder of the course program.

Course: IT20

Prerequisites: Topic Dependant

Credit Points: 12 **Contact Hours:** 3 per week

■ **ITB343 MULTIMEDIA**

Course: IT20

Prerequisites: Topic dependant

Credit Points: 12 **Contact Hours:** 3 per week

■ **ITB348 PROJECT**

Allows students to undertake a large project in one semester.

Course: IT20

Credit Points: 24

■ **ITB350 PROJECT-H**

The ability to apply knowledge and skills to real-life situations is essential for people planning to work as information management professionals. A one semester project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills. As this unit is for students intending to proceed to the Honours course, this project must include an evaluative component.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Information Management major and 2 Pre-Honours units.

Credit Points: 12

■ **ITB351 INFORMATION MANAGEMENT 3H (STRATEGY & PLANNING)**

Pulls together many of the themes previously identified in the course of the information management major, with particular reference to information as a commodity and its use in strategic planning and enterprise information modelling. Functions and practices of management that relate to provision of information services, and utilisation of technology to support them are dealt with. In order to prepare students who are intending to proceed to an Honours program, this unit addresses performance analysis and evaluation work in more depth than the standard version of the course.

Course: IT20

Prerequisite: ITB331

Credit Points: 12 **Contact Hours:** 3 per week

■ **ITB352 LABORATORY 4H (INFORMATION SUPPORT METHODS & EVALUATION)**

Provides practical exposure to a range of techniques that are used to support information management implementations including data dictionary and repository maintenance, thesaurus construction and maintenance and interface development for Internet tools. In order to prepare students who are intending to proceed to an Honours program, a greater amount of evaluative work is introduced in the exercises and assessment undertaken.

Course: IT20 **Prerequisites:** ITB320 and ITB520

Credit Points: 12

Contact Hours: 3 per week

■ **ITB410 SOFTWARE DEVELOPMENT 1**

The basis of the major computing topics to be covered in later units. All students in the area of information technology need to be aware of a range of problem solving techniques and how these can be used to solve various problems using a procedural programming language. Introduces the student to the need for software quality management and control during software development.

Courses: IF23, IF33, IF38, IF54, IT20

Co-requisite: ITB101

Credit Points: 12

Contact Hours: 3 per week

■ **ITB411 SOFTWARE DEVELOPMENT 2**

Quality software development increasingly requires design of algorithms using modules, and algorithms and data-structures for building modules. Provides the foundation knowledge for the external and internal perspective of software modules in a system context. Provides students with an understanding of modules in the context of programmable systems. The external view and internal view of modules and their realisation in a modular programming language are covered. Abstract data types, specification of interfaces and methods for achieving program correctness provide the theoretical basis. Standard data structure modules are examined.

Courses: IF23, IF33, IF38, IF54, IT20

Prerequisite: ITB410

Credit Points: 12

Contact Hours: 3 per week

■ **ITB412 TECHNOLOGY OF INFORMATION SYSTEMS**

Computer hardware and system software together provide the context within which computer applications operate. Topics include: the von Neuman model; instruction execution; registers and addressing modes; program and data representation; assembly language programming; i/o, interrupts and DMA; introduction to boolean algebra and computer hardware; FSMs; hard-wired versus microprogrammed control; i/o and secondary storage devices; advanced computer architectures; networking.

Courses: IF23, IF33, IF38, IF54, IT20

Credit Points: 12

Contact Hours: 3 per week

■ **ITB420 COMPUTER ARCHITECTURE**

Extends the introductory treatment of computer hardware and system software given in the prerequisite unit. A study of the following concepts: virtual machine architecture, device handling and memory management.

Courses: IF23, IT20

Prerequisite: ITB412

Credit Points: 12

Contact Hours: 3 per week

■ **ITB421 DATA STRUCTURES & ALGORITHMS**

Quality software development requires the design and implementation of efficient data structures with their associated algorithms. Builds upon the concepts of encapsulation and abstraction which were introduced in ITB411 by examining a number of implementations of the Table abstraction and evaluates the efficiency of each implementation.

Courses: IF23, IT20

Prerequisite: ITB411

Credit Points: 12

Contact Hours: 3 per week

■ **ITB422 LABORATORY 3 (ADTS IN A UNIX ENVIRONMENT)**

Extends students' knowledge of the Unix environment and introduces the language C, with an emphasis on the implementation of ADTs in that language. Students obtain extensive experience with this important practical language, including documentation and report

writing. Topics covered include the Unix environment, the shell and shell programming; the language C; implementation of a variety of data structures in C; generic ADTs; programming styles, documentation and standards.

Courses: IF23, IT20

Prerequisites: ITB411 & ITB102

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB423 LABORATORY 4 (SOFTWARE DEVELOPMENT)

Consolidates the software engineering principles studied in earlier units as well as augmenting the material in ITB424. Provides students with an opportunity to work in small groups on a major project which requires them to take a problem from statement to a well documented and researched solution.

Course: IF23, IT20 **Prerequisites:** ITB422, ITB424

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB424 SOFTWARE ENGINEERING PRINCIPLES

Examination of the problems of developing and maintaining reliable large scale software product and the techniques needed to overcome them, as students need to appreciate the seriousness of the problem, and the value of a disciplined approach to the solution. Students are made aware of the variety of tools and methodologies to support software development.

Courses: IF23, IT20 **Prerequisite:** ITB421

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB430 CONCURRENT SYSTEMS

Examination of the process structure of concurrent systems and the symbiosis of hardware and system software required to support such systems. Topics include: concurrency, processes and process synchronisation; interrupt handling; resource management, deadlock; realtime and concurrent programming in Modula-2 and process kernels; specification of concurrent systems; realisation of process and resource management principles in contemporary operating systems; multiprocessor and distributed systems with special reference to multiprocessor UNIX systems.

Courses: IF23, IT20 **Prerequisite:** ITB420

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB431 PROGRAMMING LANGUAGE PARADIGMS

Introduction to non-procedural language paradigms; viz functional logical and object-oriented programming techniques. Each is studied in the context of a well-known computer language with its computational environment. A major component of this unit is laboratory based. For each paradigm substantial program development is included.

Courses: IF23, IT20 **Prerequisite:** ITB411

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB440 LANGUAGES & LANGUAGE PROCESSING

Syntax-directed programs permeate computing - examples are editors, formatters, command interpreters and compilers. In order to rapidly and reliably create such tools, it is necessary to understand the underlying theory of language definition, recognising automata and grammar classifications, as well as the practical realisation of recognisers in stylised, reusable code.

Courses: IF23, IT20 **Prerequisite:** ITB421

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB441 GRAPHICS

Examines the nature of computer graphics hardware and software and the design and implementation of computer graphics software so as to enable students

to implement graphics systems in their application areas. Topics include: graphics hardware; graphics Kernel System and Phigs; fundamental algorithms for 2-D graphics; 3-D transformations; curve and surface modelling; colour models; hidden surface removal.

Courses: IF23, IF52, IT20 **Prerequisite:** ITB422

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB442 FOUNDATIONS OF ARTIFICIAL INTELLIGENCE

As artificial intelligence is coming out of the laboratory into the marketplace, it is important that students are exposed to the major ideas of artificial intelligence and in particular to the role of knowledge engineering in the design of practical knowledge-based systems. This unit provides a broad and comprehensive introduction to the field of artificial intelligence.

Courses: ED50, IF23, IT20 **Prerequisite:** ITB431

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB443 SYSTEMS PROGRAMMING

Concurrent programming is the basis for operation system implementations, much systems programming and parallel application programming. It is a central idea in advanced computer science and an important concept in multiprocessor computers and parallel computer hardware. This unit builds upon previous introduction to concurrent systems. Introduces systems programming in an operating system that supports processes and inter-process communications. Topics covered include a review of UNIX operating system commands; process and file management; UNIX administration, security; shell programming; the C/UNIX interface; remote procedure calls.

Courses: IF23, IT20

Prerequisites: ITB422 or ITP413

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB444 SPECIAL STUDIES 1

■ ITB445 SPECIAL STUDIES 2

Aspects of current scientific interest; making allowances for significant developments in computing science not provided for in the remainder of the course program. Details of topics are published before the start of each semester.

Courses: IF23, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ ITB446 PROJECT

■ ITB447 PROJECT

Analysis, design and programming skills, and the underlying theory, are presented in various units; practice in those units naturally emphasises their particular specialisation. A project unit brings many of those skills together in a practical exercise of greater size and complexity, emphasising their complementary nature and the need for careful management. Students, either individually or in small groups, undertake a significant project, relevant to the needs of industry, government or a research area, carried out under the supervision of a staff member whose interests lie in the field of the project. Before work commences on the project, student(s) and supervisor must agree on the topic of the project and the scope of the work to be attempted. The role of the supervisor is to provide broad guidance on the methods and techniques to be used but progress depends largely on student initiative and problem-solving ability.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Computing Science major

Credit Points: 12

■ ITB448 OBJECT TECHNOLOGY

Examination of methods and techniques of object-oriented design and implementation based on careful assessment of the underlying software engineering issues. The design of effective module interfaces is emphasised to achieve the full benefit of the object-oriented approach. Practical work focuses on building reusable components and constructing object-oriented systems by combining existing and custom made components.

Course: IT20

Credit Points: 12 Contact Hours: 3 per week

■ ITB449 EXPERT SYSTEMS

Formal mathematical logic is the main theme of this unit. Some fundamental theories in the formal representation of domain knowledge is introduced. The introductory topics include: propositional and predicate logic, resolution, temporal logic, fuzzy logic and connectionist knowledge representation themes. This unit is designed to establish a strong theoretical foundation for students who will work in knowledge and engineering.

Courses: IF23, IT20

Credit Points: 12 Contact Hours: 3 per week

■ ITB450 ADVANCED COMPUTER ARCHITECTURE

A continuation of the material introduced in the units ITB412 and ITB420. Intended to provide students with an understanding of the organisation of contemporary computer systems and the variety of different structures which may be used for specific tasks. Topics covered include the physical basis of the constraints of processor speed; high performance 'von Neumann' architectures; pipelined processors, vector processors and supercomputers; machines for protected multitasking; Conceptual models for parallel computation.

Courses: IF23, IF33, IT20 Prerequisite: ITB420

Credit Points: 12 Contact Hours: 3 per week

■ ITB451 PROJECT

Enables students to undertake a two semester project. The work in one semester can be followed up in the second, or students can extend their practical skills through the second semester project. See ITB446/7 for a general description of project units.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Computing Science major.

Credit Points: 24

■ ITB452 PROJECT WORK

This unit is for students intending to proceed to the Honours course following the Bachelor of Information Technology. The project has a significant research component in addition to the practical development of a system of greater size and complexity than previously undertaken by a student. See ITB446/7 for a general description of project units.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Computing Science major and ITB440.

Credit Points: 24

■ ITB453 PROJECT

This unit allows students to undertake a large project in one semester. See ITB446/7 for a general description of project units.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Computing Science major

Credit Points: 24

■ ITB454 SOFTWARE QUALITY ASSURANCE

Software quality assurance is concerned with ensuring that software products are of high quality, and that the software development process supports the production of high quality software. In this unit it is presented as an integral part of software development, affecting all stages of the life cycle of a software product. Practical work focuses on the techniques and tools for defining, measuring and achieving high quality software products; and for helping to increase overall productivity.

Course: IT20

Prerequisite: ITB424

Credit Points: 12

Contact Hours: 3 per week

■ ITB455 INTEGRATED SOFTWARE ENGINEERING ENVIRONMENT

Provides a thorough understanding of the rationale for the use of software tools in the software engineering process. The information stored in various software engineering constructs and the software tools used to aid their construction are examined. The interrelationship between the information generated in the software engineering process will also be examined. In the light of this examination, the relationship between the various software tools can be defined. Existing software tools and methodologies will also be examined and evaluated. Implementation issues for a fully integrated software engineering environment are examined by inspecting the implementation of one or more software engineering tools.

Course: IT20

Prerequisite: ITB424

Credit Points: 12

Contact Hours: 3 per week

■ ITB456 INTELLIGENT GRAPHIC USER INTERFACES

Introduction to the design and construction of GUIs. Conventional User Interfaces (CUIs) and graphical techniques are discussed as the basis for the development of GUIs. Although a computing science perspective is employed in the approach to the topics treated in this unit, influences from other disciplines are discussed.

Course: IT20

Prerequisite: ITB424

Credit Points: 12

Contact Hours: 3 per week

■ ITB457 FUNCTIONAL PROGRAMMING

Introduction to an alternative programming language and method of programming. An emphasis is placed on two important new techniques for building programs: higher order functions and lazy evaluation. Application areas include: AI, symbolic processing, rapid prototyping and reusable software design.

Course: IT20

Prerequisite: ITB421

Credit Points: 12

Contact Hours: 3 per week

■ ITB461 FOUNDATIONS OF NEUROCOMPUTING

Presents the neurocomputing paradigm and explains the biological concepts on which it is based. Focus on how neurocomputing complements the tools of the computing professional; demonstrates that neurocomputing is an inherently parallel computing method. Discusses the strengths and limitations of the most used neural network architectures and training methods; reviews neural network hardware.

Course: IT20

Credit Points: 12

Contact Hours: 3 per week

■ ITB462 COGNITIVE SYSTEMS

Expert systems, natural language processing (with the exception of speech recognition), reasoning, high-level vision, planning and learning. Symbolic as well as neurocomputing methods, and hybrid systems, and is open to extensions.

Course: IT20

Prerequisites: ITB442, ITB461

Credit Points: 12

Contact Hours: 3 per week

■ ITB463 PATTERN RECOGNITION

Focus on pattern recognition problems using the three main approaches: statistical, syntactical and neurocomputing. It demonstrates two applications of pattern recognition: speech recognition and image analysis and description.

Course: IT20 **Prerequisites:** ITB442, ITB461
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB520 DATA COMMUNICATIONS

An introductory treatment of the major topics and issues in data communications including the terminology and concepts of data and telecommunications networks, the services and architectures; the facilities and functions of the data and telecommunications products and services used in national and international communications networks; the main issues in the design, management, security and control of data and telecommunications networks and services; and the social, political, and economic effects of communications technologies.

Courses: BS50, IF38, IF54, IT20
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB521 LABORATORY 3 (COMPUTER NETWORKS)

Provides a practical study of the current network protocols in use today. Topics include the installation, configuration, management, performance and security of communication products and services. Students gain a theoretical understanding of the transport protocols for internetworking via repeaters, bridges, routers, and gateways; and also an understanding of the application services and protocols provided by different LANs.

Course: IT20 **Prerequisite:** ITB411
Co-requisite: ITB522
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB522 ADVANCED DATA COMMUNICATIONS

Topics covered include data link protocols, transport layer services, upper layer services; data communications network design and management (techniques and case studies); performance modelling of communications networks; evaluation of data communications products and services (mostly Australian-based); data communications software design and implementation; provision of integrated communications services (voice, data, video, etc); LAN/WAN integration; high speed networking; internetworking and network management.

Course: IT20 **Prerequisites:** ITB520, ITB410
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB530 TRANSPORT PROTOCOLS

Students study the principles, protocols, and architectures of internetworking. Topics include: routing strategies used by bridges and gateways; security and management of routing data over global networks; network interface design; and error and flow control.

Course: IT20 **Prerequisites:** ITB521 & MAB177
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB531 APPLICATION SERVICES

A study of the protocols provided by the process layers of the Open Systems Interconnection (OSI) Reference Model and the application services provided in the process layer, in particular message handling, directory services, file transfer access and management, network management, and distributed processing. Other topics include abstract syntax notation; profiles for government, office and manufacturing; and security issues.

Course: IT20 **Prerequisite:** ITB522
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB532 LABORATORY 4 (NETWORK MANAGEMENT)

Network management forms a vital part of the overall control and operation of computer networks and interconnection of these networks on a local, national or worldwide basis. Topics include: principles of computer network management and control; practical experience in the configuration of network management software systems and in the interpretation of management information provided by these sub-systems; factors needed in assessment of the control, management, performance, availability and security of data networks.

Courses: IT20, IT40 **Prerequisite:** ITB521
Co-requisite: ITB531
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB533 COMPARATIVE NETWORK SYSTEMS

Various operating systems and the techniques used to perform interprocess communication. The client/server model is examined, address schemes, ports, sockets, remote procedure calls are programmed in the C language on UNIX, DOS and OS/2 systems.

Course: IT20, IT40 **Prerequisite:** ITB542
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB534 TELECOMMUNICATION MODELLING

The growing complexity of communication networks and services in the world today requires a detailed knowledge of how they perform and how they should be designed and managed in a cost effective way. This unit lays the foundations for a proper understanding of the factors involved. Covers the basic concepts and models used in teletraffic theory as they are applied to current telecommunication networks. Studies the mathematical techniques for achieving efficient, cost effective communication networks.

Course: IT20 **Prerequisite:** MAB178
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB541 TRANSMISSION TECHNIQUES

An examination of high speed networks, satellite communications, fibre optics and wireless LANs; performance and optimisation of network links and the interconnection of telecommunications equipment based on the international standards: ISDN, BISDN, ATM.

Course: IT20 **Prerequisites:** ITB520, MAB177
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB542 NETWORK PROGRAMMING

Students require a detailed understanding of the processes involved in the design, development, programming and management of communications software. The interprocess communications on various systems, the necessary practical skills to utilise the concepts of network programming, enable them to setup network facilities, develop and modify network code, and ethics of network programming. Topics include: streams, sockets, remote procedure calls.

Courses: IT20, IT40 **Prerequisites:** ITB422
Co-requisite: ITB522
Credit Points: 12 **Contact Hours:** 3 per week

■ ITB543 DATA SECURITY

Information security within an organisation deals with the managerial and technical aspects involved in protecting the information. At the completion of this unit, students are able to demonstrate knowledge of the factors which impact upon the availability, integration and confidentiality of data; make a realistic assessment of the needs for data security in an organisation; discuss the implications of security decisions on the organisation's information systems.

Course: IT20, IT40
Credit Points: 12
Prerequisite: ITB520
Contact Hours: 3 per week

■ **ITB544 PROJECT**

Students, either individually or in small groups, undertake a significant project, relevant to the needs of industry, government or a research area, carried out under the supervision of a staff member whose interests lie in the field of the project. Before work commences on the project, student(s) and supervisor must agree on the topic of the project and the scope of the work to be attempted.

Course: IT20

Prerequisites: Completion of at least 72 credit points from the Data Communications major.

Credit Points: 12

■ **ITB545 PROJECT**

Students undertake a two-semester project. The work in one semester can be followed up in the second, or students can extend their practical skills through the second semester project.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Data Communications major.

Credit Points: 24.

■ **ITB546 SPECIAL STUDIES 1**

■ **ITB547 SPECIAL STUDIES 2**

These units cover aspects of current scientific interest; it makes allowances for significant developments in data communications not provided for in the remainder of the course program. Details of topics are published before the start of each semester.

Course: IT20

Credit Points: 12
Contact Hours: 3 per week

■ **ITB548 INTRODUCTION TO CRYPTOLOGY**

This unit covers classical ciphers; modern symmetric ciphers; public key ciphers; practical cryptology.

Courses: IF23, IT20, IT40, MA34, SC30, SC60.

Prerequisites: MAB177 or MAB493 or MAB620

Credit Points: 12
Contact Hours: 3 per week

■ **ITB549 ERROR CONTROL & DATA COMPRESSION**

This unit covers data compression techniques; introduction to block codes; convolutional codes; cyclic codes and Reed-Solomon codes; coding techniques and applications.

Courses: IF23, IT20, IT40, MA34, SC30, SC60.

Prerequisites: MAB177 or MAB493 or MAB620

Credit Points: 12
Contact Hours: 3 per week

■ **ITB555 PROJECT**

This unit allows students to undertake a large project in one semester.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Data Communications major.

Credit Points: 24.

■ **ITB560 INTRODUCTION TO CRYPTOLOGY**

This unit covers number theory; finite field theory; information theory; classical ciphers; key ciphers and cryptology.

Courses: EE44, IF23

Prerequisite: MAB493

Credit Points: 7
Contact Hours: 4 per week

■ **ITB561 ERROR CONTROL & DATA COMPRESSION**

This unit covers data compression technique; introduction to block codes; convolutional codes; cyclic codes

and Reed-Solomon codes; coding techniques and applications.

Courses: EE44, IF23

Prerequisite: MAB493

Credit Points: 7

Contact Hours: 4 per week

■ **ITB904 INDUSTRIAL TRAINING EXPERIENCE**

Consists of a one year work experience program. For more information about this program, see the IT20 Bachelor of Information Technology entry in this Handbook.

Course: IT20

Credit Points: 24

■ **ITN100 RESEARCH METHODOLOGIES**

Provides a basis for students to undertake a research project in the Honours and Masters program. Examines the nature of information technology and the specific research approaches which are commonly applicable to it. Students will learn how to review literature relevant to their research and how to select the research method most appropriate to their project. Provides the foundation skills required in research: critical reviewing, analysis and writing.

Courses: IT30, IT40

Credit Points: 12

Contact Hours: 3 per week

■ **ITN110 PROJECT (HONOURS)**

Designed to enable a student to pursue, in some depth, a particular area of interest, either professional or personal, in information technology.

Courses: IT30

Co/prerequisite: ITN100

Credit Points: 12

■ **ITN120 DISSERTATION**

Designed to enable students to undertake significant research work in a particular area of information technology

Courses: IT30

Prerequisite: ITN100

Credit Points: 24

■ **ITN130 DISSERTATION (PART-TIME)**

Designed to enable students to undertake significant research work in a particular area of information technology.

Course: IT30

Credit Points: 24

■ **ITN140 PROJECT**

Designed to enable a student to pursue, in some depth, a particular area of interest, either professional or personal, in information technology.

Courses: IT40

Credit Points: 48

■ **ITN150 PROJECT (PART-TIME)**

Refer to ITN140.

Course: IT40

Credit Points: 48

■ **ITN210 FOUNDATIONS OF INFORMATION MODELLING**

It is common to sharply distinguish between the specification and the implementation of organisational information systems. There are, however, many important ideas that are shared. This unit introduces notation from mathematics and logic that may be used to describe these ideas. An information systems models some aspect of an organisation and contains both specific and general statements about it. The specific statements are stored in the database and the more general ones end up as program. This unit describes how such statements may be specified in the Z notation and implemented in SQL.

Courses: IT40

Credit Points: 12

Contact Hours: 3 per week

■ **ITN211 SYSTEMS ANALYSIS AND DESIGN**

For the creation of a useful and usable information system, it is essential that the feasibility of the system has

been established, that the user's requirements are known, and that a suitable user interface is specified. This unit develops basic systems development skills by teaching the methodology and techniques.

Courses: IT40 **Co/Prerequisite:** ITN210
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN220 MAJOR ISSUES IN INFORMATION SYSTEMS

Explores aspects of information technology of great potential significance to information systems professionals, such as the status of information system standards, the extent of integration of computer technology and data communications technology, as well as emerging social and ethical considerations with regard to information technology.

Courses: IF64, IT40
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN221 OBJECT-ORIENTED ANALYSIS AND DESIGN

The goal is to develop basic skills in methodologies and techniques of object-oriented analysis and design. Covers all phases of the object-oriented software development life cycle.

Courses: IT30, IT40
Prerequisites: ITB222 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN230 CURRENT ADVANCES IN DATABASE TECHNOLOGY

Current research activities and development in the area of the next generation database systems; a mixture of research papers and lecture notes on existing systems; practical and theoretical methodologies

Courses: IT30, IT40
Prerequisites: ITB232 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN231 KNOWLEDGE-BASED SYSTEMS

This unit assumes a background in conventional systems concepts, programming and database, and an exposure to fundamental expert systems concepts. Explores four major themes in knowledge-based systems: (a) conceptual: problem selection and structure, inference and knowledge representation; (b) technical: declarative and functional programming; (c) pragmatic: improving the yield from existing information base; and (d) methodological: questions associated with the definition, design and control of knowledge-based systems.

Courses: IT30, IT40
Prerequisite: ITB243 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN241 ADVANCED TOPICS IN HUMAN-COMPUTER INTERACTION

The most significant issues and activities of human computer interaction and software design; includes the perceptual basis of the presentation of visual information, the basic aspects of visual information processing and facets of representation of knowledge; the development of expert systems and how they change the nature of interaction between person and machine and review features of interactions with systems, eg. keyboards through to advanced input modes. On completion, students should be able to apply principles from the current research in difference aspects of human computer interactions and are aware of future developments in this field.

Courses: IT30, IT40
Prerequisite: ITB224 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN242 DISTRIBUTED TRANSACTION MANAGEMENT SYSTEMS

Distributed transactions management systems are the object of active research. Data sharing makes imperative the need to address the problem of making different transaction managers talk to each other in homogeneous and heterogeneous environments. Therefore, the techniques which are covered in this unit have a far reaching benefit as far as mastering the technology of the next generation database systems.

Courses: IT40 **Prerequisites:** ITB232 & ITN243
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN243 ACCESS METHODS FOR INFORMATION SYSTEMS

Modern information systems are built around fast access methods and flexible structuring mechanisms. In this unit these techniques are studied using both analysis and experimentation. Trees, lists, tables, hashing and stacks are reviewed. Extensible hashing, K-d trees, quadrees, multiattribute hashing and signature files are studied.

Courses: IT30, IT40
Prerequisite: ITB246 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN244 SPECIAL TOPIC 1

■ ITN245 SPECIAL TOPIC 2

These units are designed to allow for the significant development of, or emphasis in, information systems not dealt with in other course units. Selected topics and study areas are offered as required and when the necessary expertise is available. See School of Information Systems announcements for details of topics being offered.

Courses: IT30, IT40
Prerequisites: See School announcement.
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN250 DISTRIBUTED DATABASE SYSTEMS

Distributed DBMS architectures, data replication and fragmentation; query decomposition and optimisation; transaction management in distributed settings; distributed concurrency control; recovery and multi-databases.

Courses: IT30, IT40
Prerequisites: ITB232 & ITN243
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN340 INFORMATION AGENCIES

In-depth understanding of the history and development of information agencies and their services, to enable approaches to their advancement based upon performance analysis and analysis of user needs.

Courses: IF64, IT30, IT40
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN341 INFORMATION POLICY AND PLANNING

The relationship between the public and private sectors in information provision, and an examination of the information industry and corporate and government policies relating to it.

Courses: IF64, IT30, IT40
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN342 INFORMATION SCIENCE

An understanding of theories and principles that have been adopted from a variety of disciplines and which together give some pointers towards a model for information and communication theory.

Courses: IT30, IT40
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN410 SOFTWARE PRINCIPLES

Use of efficient data structures; languages illustrating the variety of features found in computer programming languages; structured program design techniques; advanced algorithms and methods of providing program correctness.

Courses: IT40

Credit Points: 12 Contact Hours: 3 per week

■ ITN411 SYSTEMS ARCHITECTURE AND OPERATING SYSTEMS

Computer organisation; the nature and roles of system software and the nature of microcomputers and computer graphics; computer systems architecture; micro-operations; instruction formats; microprocessor types; machine language; system software including operating systems, assemblers, compilers, loaders.

Courses: IT40

Co-requisite: ITN410

Credit Points: 12 Contact Hours: 3 per week

■ ITN420 COMPARATIVE PROGRAMMING LANGUAGES

Language is the fundamental conceptual tool and means of expression within information technology so its principles need to be understood and the similarities and differences between different languages appreciated. This unit provides an understanding of the languages currently used and, importantly, in what directions they can be expected to develop. Language is also the major technical support for software engineering principles so can be seen as a large part of the solution to current and future software engineering problems.

Courses: IT30, IT40

Prerequisites: Knowledge of ADT's

Credit Points: 12 Contact Hours: 3 per week

■ ITN421 SOFTWARE SPECIFICATION

The use of formal methods is viewed as an integral part of the software engineering process. The unit includes formal specifications and uses the laws of refinement to derive Modula-2 code. Later temporal logic to deal with real-time issues is introduced.

Courses: IT30, IT40

Credit Points: 12 Contact Hours: 3 per week

■ ITN430 ADVANCED OPERATING SYSTEMS

This unit has two themes: the nature, design and implementation of real-time systems on the one hand, and the nature of object oriented programming environments and operating systems on the other. Students are expected to be familiar with systems programming and object oriented concepts.

Courses: IT30, IT40

Prerequisites: ITN410 & ITN411 (IT40 only)

Co-requisites: ITB430

Credit Points: 12 Contact Hours: 3 per week

■ ITN431 DISTRIBUTED SYSTEMS

The rationale for distributed computer systems, their domain of application and the principles of distributed control underlying their construction. A number of representative systems are examined.

Courses: IT30, IT40

Co/Prerequisite: ITB430

Credit Points: 12 Contact Hours: 3 per week

■ ITN440 ADVANCED GRAPHICS

Advanced level extension of the material in the undergraduate curriculum; the use of facilities provided by existing graphics systems.

Courses: IT30, IT40

Prerequisite: ITB441

Credit Points: 12 Contact Hours: 3 per week

■ ITN441 ARTIFICIAL INTELLIGENCE

Artificial intelligence in the computing industry; aspects of artificial intelligence which have given rise to commercial products; background research efforts which promise to have a major impact on the use of computers in the near future.

Courses: IT30, IT40

Prerequisite: ITB442

Credit Points: 12 Contact Hours: 3 per week

■ ITN442 COMPILER CONSTRUCTION

The organisation and structure of language translator and compilers. Some emphasis is placed on those parts of these software tools which are amenable to formal analysis. The material extends undergraduate studies in algorithm design and in the semantics of formal languages. Special attention is paid to techniques which are applicable in the implementation of special purpose languages such as database query languages and production systems.

Courses: IT30, IT40

Prerequisite: ITB440

Credit Points: 12 Contact Hours: 3 per week

■ ITN443 NEUROCOMPUTING

An introduction to the principles upon which current artificial neural network computing is based, giving examples of current applications, and exploring the potential future development of the technology.

Courses: IT30, IT40

Credit Points: 12 Contact Hours: 3 per week

■ ITN444 PARALLEL PROCESSING

The modelling of parallel systems and the design methodologies used in their construction; applicable software systems and methodologies; the formal analysis of concurrent systems is based on the theory of communicating sequential processes.

Courses: IT30, IT40

Credit Points: 12 Contact Hours: 3 per week

■ ITN445 PATTERN RECOGNITION

Introduction of new methods for producing more powerful software for tasks traditionally considered as requiring intelligence. Hands on experience is provided by computer simulations exercises and assignments using MATLAB.

Courses: IT30, IT40

Prerequisites: ITB442 & ITB461 or equivalent

Credit Points: 12 Contact Hours: 3 per week

■ ITN446 PROJECT

Students may pursue a specialised area or broaden their knowledge in areas of relevance to their employment. Topic is decided by agreement between the student and a staff member acting as supervisor.

Courses: IT40

Prerequisites: At least 72 credit points completed

Credit Points: 12 Contact Hours: 3 per week

■ ITN447 SPECIAL STUDIES

Aspects of current scientific research interest; it makes allowances for significant developments in computing science not provided for in the remainder of the course program. See noticeboard for further information.

Courses: IT30, IT40 Prerequisites: Topic dependent

Credit Points: 12 Contact Hours: 3 per week

■ ITN510 DATA NETWORKS

Basic data communications and topics of fundamental importance concerning the technology and architecture of data networks at a postgraduate level. It emphasises communications software and hardware, telecommunication services, local area networks, wide area networks, interconnectivity and network management.

Courses: IT40

Credit Points: 12 Contact Hours: 3 per week

■ ITN520 INTERNETWORKING

Students entering the field of computer networks are expected to possess practical skills in various aspects of the installation and management of communications systems, particularly local area networks.

Courses: IT40 **Prerequisite:** ITN510
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN521 NETWORK APPLICATIONS

Students will study the distributed application services offered by open networking technologies. The international standards pertaining to these distributed application services will also be studied (mainly those using the OSI and TCP/IP communications technologies). Students will also gain insight into future industry trends in the area of open systems.

Courses: IT40 **Prerequisites:** ITN510
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN530 CORPORATE TELECOMMUNICATIONS

The issues of design, control, security and management of enterprise-wide networks. The corporate network encompasses integrating a company's telecommunications systems, including local area networks, metropolitan area networks, wide area networks (national and international), voice networks, and other special services.

Courses: IT30, IT40 **Prerequisites:** ITN510
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN531 NETWORK SECURITY

Ensures that students recognise the requirement to design, implement and manage facilities in a manner consistent with an overall organisational security policy. Development of a security plan; risk analysis; access control; cryptography; network security and encryption; key management; database security; secure operating systems and access control. On completion, students should be able to incorporate security and management controls into information systems in accordance with a formal risk analysis and assessment for the system.

Courses: IT30, IT40
Prerequisites: ITB543 or ITB548
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN540 ADVANCED NETWORK TECHNOLOGIES

Details the latest network technologies for moving information across the room or across the world. Investigates the network protocols used in the transport of information using this new hardware.

Courses: IT30, IT40
Prerequisites: ITN510 or ITN522
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN553 OS SECURITY AND MANAGEMENT

Computer professionals need to be able to identify, assess, and advise on the security features (in particular the enforcement techniques used) in computer systems.

Courses: IT30, IT40 **Co-requisites:** ITN531
Credit Points: 12

■ ITN554 SPECIAL TOPIC

An advanced topic in data networks is studied in detail. The topic concerned will depend on the interests of the faculty member or visitor responsible for the unit in any semester in which the unit is offered.

Courses: IT30, IT40
Prerequisites: Approval of Head of School of Data Communications
Credit Points: 12 **Contact Hours:** 3 per week

■ ITN555 SPECIAL TOPIC

Refer to ITN554

Course: IT30 **Credit Points:** 12

■ ITN556 ADVANCED TOPICS IN CRYPTOLOGY

Design and cryptanalysis of ciphers; indepth study of methods for forming secure ciphers and attacking various ciphers; secret sharing schemes; crypto-protocols, including zero knowledge systems; current topics in cryptology.

Courses: IT30, IT40 **Prerequisite:** ITN554
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP310 SYSTEMS ANALYSIS

This unit provides an introduction to all phases of the classical systems development life cycle: this gives students a balanced overview of the process of analysing information systems, while ensuring that students develop the necessary skills to apply the major techniques.

Course: IS25
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP311 COLLECTION BUILDING & ACQUISITIONS

The concept of information and its relationship to information resources and needs; the various formats by which information is communicated are compared and appropriate selection criteria discussed; the characteristics of the book and other media trades, and the means by which these media are acquired; collection building in light of the needs of the immediate clientele to be served and of the wider Australian community. Other topics include procedures for keeping collections current, evaluating their usefulness and the legal and ethical dimensions of collection building.

Courses: IS25, IT20
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP312 ORGANISATION OF KNOWLEDGE

The organisation of knowledge in libraries and information agencies. Emphasis is placed on the description, classification and subject analysis of information in print media using AACR2 (1988 revision), DDC, and LCSH. Other related topics are mentioned briefly, eg. LCC, MARC, ABN, and other efforts.

Course: IS25, IT20
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP313 INFORMATION SOURCES & SERVICES

Interpersonal communication, the reference interview and search strategies, and general and Australian reference tools; national information policy, reference theory and service, communication and the reference interview, search strategies, lead-in tools, general reference tools, government documents, resources in the humanities, social sciences, science and technology, user pays, document delivery, microcomputers.

Course: IS25, IT20
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP314 ONLINE INFORMATION SERVICES

Teaches students to act as the interface between users and information they may require, using a variety of available resources, systems, and technologies; development of on-line information services, database producers, search strategies, services offered by major vendors, in-house systems (including CD-ROM) and computer assisted retrieval of information.

Course: IS25 **Prerequisite:** ITP201
Credit Points: 12 **Contact Hours:** 3 per week

■ ITP315 LIBRARY PROGRAMS MANAGEMENT

Administrative organisation in libraries; authority relationships and the nature of the library as a bureaucracy; position classification and personnel administration; the management of library finances; applications of computer technology in library management; change in organisations; planning, organising, staffing, directing, and controlling; the concepts of leadership and professionalism.

Courses: IS25, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP316 FIELD EXPERIENCE

Designed to give students an opportunity to participate in the day-to-day work of a library at a beginning professional level. Students are required to undertake work at a level appropriate to beginning professionals in two approved libraries for a total period of 30 working days gaining substantial experience in at least two different areas of library work under the supervision of qualified librarians.

Courses: IS25, IT20

Prerequisites: Completion of 50 per cent of other units.
Credit Points: 4

■ ITP317 LIBRARY SERVICES TO YOUNG PEOPLE

The most important aspects of library services to children and young adults; the evolution of literature with emphasis on the effects of social, political and religious movements on its purposes, form and content; the development of library services in both schools and public libraries; the importance of literary awards; the criteria for selection of resources; the planning and carrying out of programs to promote reading, including effective storytelling.

Courses: IS25

Prerequisites: ITP311, ITP313

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP318 ADVANCED ORGANISATION OF KNOWLEDGE

The organisation of knowledge in libraries and information agencies. Topics include description of selected non-print media, enumerative and faceted classifications, special classifications, problems with alphabetical unit indexes and automated indexing.

Courses: IS25

Prerequisite: ITP312

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP319 GOVERNMENT DOCUMENTS

The production, acquisition and organisation of government documents and issues related to their use. Topics include why governments publish, the range of units, the value of government information, bibliographic control, freedom of information commercialisation/privatisation of government information, and organisation of government document collections. Australian, United States, United Kingdom and international government documents are studied.

Courses: IS25

Prerequisite: ITP313

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP320 SPECIAL TOPIC – LIBRARY SCIENCE

Designed to allow for significant development of, or emphasis in, library science not dealt with in other units. Topics and study areas are offered as required and when the necessary expertise is available.

Courses: IS25

Prerequisites: See School announcements.

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP321 SPECIAL TOPIC – LIBRARY SCIENCE

Allows for the significant development of or emphasis in library science not already dealt with. Selected topics and study areas are offered as required and when the necessary expertise is available.

Courses: IS25

Prerequisites: See School announcements

Credit Points: 8 **Contact Hours:** 2 per week

■ ITP322 INDIVIDUAL STUDY

Students can pursue in depth a personal interest in library science not covered by the Graduate Diploma course core or other elective units. On completion of this unit, students should be able to demonstrate a detailed knowledge of the area chosen.

Courses: IS25

Prerequisites: To be determined by the nature of the study.

Credit Points: 8 **Contact Hours:** 2 per week

■ ITP323 INTRODUCTION TO RECORDS MANAGEMENT

Records management theory, techniques and trends. Topics include the history and role of records management and the creation, control, organisation, maintenance, disposition and evaluation of records.

Courses: IS25

Credit Points: 8 **Contact Hours:** 2 per week

■ ITP324 LIBRARY PROGRAMS & SERVICES

An introduction to the evaluation of users' informational needs and the development of library programs and services to meet the needs of special groups in the community, eg. young people, elderly people, disabled people, ethnic minorities, business people, etc.

Courses: IS25

Prerequisite: ITP313

Credit Points: 8 **Contact Hours:** 2 per week

■ ITP325 PRESERVATION MANAGEMENT OF MATERIALS

Principles, strategies and practices of preservation of materials; various preservation techniques appropriate to the major storage media; the importance of preservation planning and security as a part of all routines; the implications of consequent losses to organisations and society should information agencies not formulate a preservation plan.

Courses: IS25

Credit Points: 12 **Contact Hours:** 3 per week

■ ITP326 INDIVIDUAL STUDY

Students can pursue in depth a personal interest in library science not covered by the Graduate Diploma course core or other elective units. On completion of this unit, students should be able to demonstrate a detailed knowledge of the area chosen.

Courses: IS25

Prerequisites: To be determined by the nature of the study.

Credit Points: 12 **Contact Hours:** 3 per week

■ JSB101 CONTEMPORARY ISSUES IN AUSTRALIAN SOCIETY 1

Perspectives in sociology; major approaches; social structures: ethnicity, racism, aboriginality, patriarchy, feminism, the family, family violence; economic organisation: international economic order, class, wealth, poverty, work; the environment; the future.

Courses: JS31, LW41

Credit Points: 12 **Contact Hours:** 3 per week

■ JSB102 SOCIAL ETHICS & THE JUSTICE SYSTEM

The ethical domain, the significance of ethics for the

criminal justice system. The topics addressed are: what is ethics?; what is justice?; justice reasoning; human rights; an ethic of care; an ethic of empowerment; criminal justice work; the role of the police; the ethics of punishment and correction; being ethical.

Courses: JS31, LW41

Credit Points: 12 Contact Hours: 3 per week

■ JSB103 INTRODUCTION TO THE LEGAL SYSTEM

Law and society; the Australian legal system; sources of our law; statutory interpretation; dispute resolution; a critical perspective of the legal system; introduction to the criminal justice process; investigation, adjudication and corrections; disadvantaged groups; the criminal justice process post-Fitzgerald.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

■ JSB104 COMMUNICATION FOR JUSTICE PROFESSIONALS

Techniques in communication; application in the law enforcement and justice professions; feelings; perception and analysis; interpersonal communication: cultural and ethnic minorities; Aboriginal people; special needs groups; interviewing: theory and practice; practical, oral and written tasks.

Courses: JS31, LW41

Credit Points: 12 Contact Hours: 3 per week

■ JSB105 PERSONAL & INTERPERSONAL RELATIONSHIPS

Self-concept, self-esteem, self-image and their relationships to personal styles; expression formation; interpersonal effectiveness and self-disclosure including related skills application; human sexuality as a central force in interactional situations; co-dependency, assertion and component skills development; conflict resolution; negotiation and aggression; conflict negotiation and the legal system; suicide; associated issues, skills development and application.

Courses: JS31, LW41

Credit Points: 12 Contact Hours: 3 per week

■ JSB107 INTRODUCTION TO CRIMINOLOGY

An examination of the theories of crime and criminality. The nature, scope and objects of criminology; general introduction to criminological theory: classical and neo-classical theories; the positivist school; physical and biological factors and theories; psychological and psychiatric explanations; crime as a social phenomenon; radical or critical criminology; feminist criminology; post-modern criminology; theory, research and policy.

Courses: JS31, LW41

Credit Points: 12 Contact Hours: 3 per week

■ JSB108 INTRODUCTION TO PROFESSIONAL STUDIES

The concepts of professionalism and professional knowledge and its application for a range of professional areas in law enforcement, justice administration and intelligence and protective security. Topics include: creative problem solving and goal attainment; inter-professional cooperation in problem situations; basic social science research methodology; and the use of computers in research.

Courses: JS31, LW41

Credit Points: 12 Contact Hours: 3 per week

■ JSB109 INTRODUCTION TO CRIMINAL LAW & EVIDENCE

The principles, rules and concepts of criminal law and evidence; the understanding and applications of such principles, concepts and rules as they relate to the

operation of the criminal justice system.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

■ JSB201 PRINCIPLES OF CRIMINAL LAW 1

History and theory of criminal law; the role of criminal law and concepts of justice; comparative criminal law; development and administration of criminal law in Queensland; legal research.

Courses: JS31, JS33, LW41

Prerequisites: JSB103, JSB109, (prerequisites waived for LW41 students).

Credit Points: 12 Contact Hours: 3 per week

■ JSB202 CONTEMPORARY ISSUES IN AUSTRALIAN SOCIETY 2

Contemporary social issues affecting various organisational levels of society: the individual, the marital dyad, the family and society as a whole; issues of abuse, equity and security; role of policy development and implementation from a social justice perspective.

Courses: JS31, JS33, LW41 Prerequisite: JSB101

Credit Points: 12 Contact Hours: 3 per week

■ JSB203 HUMAN DYNAMICS: THE JUSTICE SYSTEM

Human factors and crime evolving personality; inherited factors, morality and moral development, human dynamics and the police focusing on perception, recognition and identification; human dynamics in relation to the courts including the concepts of memory and its effects on evidence, eye witness testimony, juror selection and reliability, and reaching a verdict - the process and consensus; human dynamics and crime prevention; offender rehabilitation and individual and societal reactions to them, changing the environment by reducing opportunities for crime, increasing risks of detection; community education.

Courses: JS31, JS33, LW41 Prerequisite: JSB105

Credit Points: 12 Contact Hours: 3 per week

■ JSB204 PRINCIPLES OF CRIMINAL LAW 2

Issues and problems of justice in criminal law: parties, proof, intent, responsibility, defences; the Queensland Criminal Code; legal research.

Courses: JS31, JS33, LW41 Prerequisite: JSB201

Credit Points: 12 Contact Hours: 3 per week

■ JSB210 PROCEDURE & PRACTICE

The role and function of policing; enforcement practices: non-arrest, arrest situations; supporting documentation; evidentiary sources and gathering methodology; crime trends and their impact on policing practices.

Courses: JS31, JS33, LW41

Prerequisites: JSB108, JSB109

Credit Points: 12 Contact Hours: 3 per week

■ JSB211 PROCESS THEORY & APPLICATION

Detailed study and application of the intelligence process (cycle); study of intelligence support to operational staffs and organisations; strategic, operational and tactical concepts of intelligence and security; threat and risk assessment relative to protective security - personnel, materials and infrastructure; industrial and commercial espionage and sabotage.

Courses: JS31, JS33, LW41 Prerequisite: JSB108

Credit Points: 12 Contact Hours: 3 per week

■ JSB212 INTER-PROFESSIONAL COOPERATION

The role and function of policing in conjunction with other agencies, particularly emergency service agencies; the cooperation necessary and the awareness of reciprocal roles and functions in given situations.

Courses: JS31, JS33

Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB213 PROTECTIVE SECURITY
THEORY & APPLICATION**

Deals with protective security in its broadest sense; it examines the threat to security in the public, private and national arenas. The nature of espionage, subversion, sabotage, theft and hostage situations are also examined. The basic areas of protective security are personnel, material, physical and information security. Students also conduct risk/threat assessments and cover other areas such as inspections, audits, surveys and reviews; policy, procedures and controls; management aspects; legislation; case studies and models of security.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB214 CONFLICT MANAGEMENT:
ALTERNATIVE DISPUTE RESOLUTION**

The ways in which individuals, communities, and whole societies respond to conflict has been and continues to be a rich source of study. Jerold Auerbach in his book *Justice Without Law* states that the way societies settle disputes and their choice of socially acceptable responses to conflict ultimately reveal our most basic values and indicate whether people want to avoid, encourage, suppress or resolve conflict.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB216 CURRENT ISSUES IN
ADMINISTRATIVE LAW & JUSTICE**

Introduces students to the role of the State in the public sphere, its powers and its responsibility to individuals and the need for accountability and the function of justice professionals in protecting the public interest. During the course of this unit Western political and philosophical traditions are examined in order to enhance student's understanding of State action in a political context. This unit provides the theoretical framework necessary for the exploration of the Administrative Justice minor but is also an appropriate elective for students interested in the area.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB217 CRIMINAL JUSTICE SYSTEMS -
PERSPECTIVES OF PUNISHMENT**

Introduction: scientific method; crime and society; four stages of reactions to crime; the shift in penal philosophy. Overview to the Correctional System: sociological and cultural implications; the correctional apparatus. Punishment: historical perspectives; classical/positivist dilemma; changing philosophies of punishment. The Prison: historical origins; antecedents of the penitentiary; historical perspectives - architecture, organisations, rules and regulations; philosophies. Contemporary Thinking in Corrections: conflicting models and their implications. Human Rights Perspectives and Minimum Standards: Human Rights conventions; Australian minimum standards. Probation and Parole: historical development.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB218 TRADITIONAL PUNISHMENT
PROCESSES & ISSUES**

Contemporary penal processes: the concept of remand; security issues; prisoner placement in relation to placement; entering prison; assessment procedures; discipline and legal procedures inside; discharge mechanisms and processes. Statutory decision makers: boards,

ombudsman, official visitors. Detention of children in jails; confinement and the inmate social system. Community corrections processes: community corrections centres; home detention; probation; parole; legal obligations and mechanisms. Interaction with general community programs.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB220 INTELLIGENCE ACTIVITY: LAW,
MORALITY & THE MEDIA**

The nature of intelligence and protective security and their place in contemporary Australian society; laws and other instruments which protect individuals and their activities against unlawful intelligence and security actions and operations; human rights issues (Freedom of Information, Geneva Conventions and Protocols, etc.); the concepts of the right to know and need to know; perspectives on morality relative to personnel vetting processes, intelligence collection activities, research practices, current and archival intelligence records, investigations, interviewing and interrogation, private security industry, restricted access, and counterintelligence; the impact of investigative and public affairs reporting on security; the media's right to communicate intelligence to the public.

Courses: JS31, JS33 **Prerequisites:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB221 INTELLIGENCE & NATIONAL
SECURITY**

Examination of the concept of national security and development of a basic understanding of the control, functions, roles and responsibilities at the national level in the Australian context. Comparative studies of overseas intelligence and security systems ensure students develop a broader understanding of national security through appreciation of different concepts and context. Case studies illustrate: abuses of intelligence and security (eg. political and ideological); intelligence failures; intelligence successes and changes in concepts of national security over the past fifty years. Issues which constitute actual and potential threats to national security in Australia.

Courses: JS31, JS33 **Prerequisites:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB222 MANAGEMENT OF PROTECTIVE
SECURITY**

The security function and its performance are considered under a series of topics: formulating a security policy and monitoring its performance; responsibility for security; employment of security staff; training security staff; security of records and reports; conducting surveys and report writing; security of building and sites; conference security; security and control of road transport; fire and accident prevention; aids to security; professional bodies; and law and practice.

Courses: JS31, JS33 **Prerequisites:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB223 INTELLIGENCE,
ORGANISATIONS, PERSONNEL &
OPERATIONS**

Examination of the various types of intelligence and protective security organisations from the perspective of the 'essentials of an intelligence system'. Using defined characteristics of the intelligence professional and the principles of intelligence and security, students evaluate the selection procedures, selection criteria and management for research analysts, administrative staff, counterintelligence and protective security personnel, technical specialists and generalists for a range of organisational types. Students: design systems, establish and re-

source them, and identify direction required to achieve defined organisational goals; and establish and critically examine assessment criteria for efficiency and effectiveness of the various systems. The concept of an intelligence (and security) operation is examined together with all factors which influence decision-making relative to targets and resources. Ethics, the law and political considerations feature in operational studies.

Courses: JS31, JS33 **Prerequisites:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB230 PROTECTIVE SECURITY IN AUTOMATED SYSTEMS

Principles of protective security are applied to automated systems. Intelligence production is examined through existing data collection, collation and analysis programs (including computerised investigation aids). The unit addresses: the threat to automated systems (eg. espionage, sabotage, coercion, fraud); available security products; studies of hardware and software security, access controls, networks, data transmission security, and maintenance controls; planning of secure sites; case histories and methods by which security can be breached; and future directions in law enforcement technology and computers.

Courses: JS31, JS33 **Prerequisites:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB301 LAW OF EVIDENCE & INVESTIGATION

Professionals involved in the fields of law enforcement and justice administration are frequently required to exercise investigative skills. This unit provides students with a clear understanding of the law relating to the gathering of evidence, interrogation and admissibility of evidence in court. Study includes an examination of the general principles of judicial evidence, witnesses, rules of evidence, admissions and confessions. Issues of evidence of current importance eg issues arising out of enquires such as 'Operation Trident' enquiry are also explored.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB204
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB302 IDEOLOGY, ETHICS & JUSTICE

Examination of the notion and related concepts of ideology and how they shape, constrain and drive theories of justice and social policy. The focus is on integrating ethical reflection with application to various spheres of public policy to do with welfare, economics, law and order and the environment.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB102
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB303 HUMAN DYNAMICS: THE JUSTICE PROFESSIONS

This unit is designed to acquaint students with the nature of the unique stresses within the justice professions and law enforcement agencies and to equip students with coping skills. Consideration is given to examination of the phenomenon of stress and its effects on individuals, the nature of conflict and its resolution, personal assertiveness and to negotiation skills. Theories and practical aspects of counselling are also examined. Students are required to undertake independent research study.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB203
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB304 CRIMINOLOGY 2

Examination of the theories of punishment. Having defined punishment and the nature and limits of the criminal law students assess the traditional justifications for punishment: retribution and just deserts, deterrence,

rehabilitation and elimination and incapacitation. Justifications for severity of punishment, the control of judicial discretion and the political significance of punishment are examined. Options for reform are also canvassed.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB107
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB310 ORGANISED CRIME

The apparent growth of organised crime, both nationally and internationally, in recent years has resulted in a deepening commitment on the part of the law enforcement agencies to its suppression. Although not confined to the association with illicit drugs, the so-called drug trade is a major enterprise behind the proliferation of organised crime. Another consequence of organised crime is the development of corruption through the diverse levels of society. Students therefore gain an understanding of the historical development, social perceptions and consequences and the perceived extent of organised crime. Students also consider the strategies employed to combat organised crime including the extent of investigations and/or Commissions of Inquiry documented to date.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB311 PROTECTIVE SECURITY ISSUES & PRACTICE

Personnel, material, physical and information security are the main areas with protective security. This unit covers the methods and techniques for the collection of information and its management and analysis. Students conduct formal audits and complete written reports on their findings. Planning and controlling the flow of information; anacapa, scan and other analysis tools are studied.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB312 APPLIED POLICING RESEARCH PROJECT

This Project Study unit allows students undertaking the Law Enforcement Professional Minor to study a topic of personal academic interest which is not otherwise available as a formal subject in the area of policing. This unit differs from other units within the professional minor in that there are a minimum of scheduled lectures and the initiative to choose the topic and to organise the project must come from the student. Students choose a research topic related to contemporary law enforcement issues or activities.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ JSB313 INTELLIGENCE RESEARCH - ISSUES, PROCEDURES & PRACTICE

Addresses major intelligence issues, intelligence and related security procedures and professional practices. The concept of intelligence in this unit is 'that which confers an advantage' in any professional context. Students apply process methodology: in examining specific societal issues; in recognising different intelligence 'research' procedures for specific issues; and in practical analysis of selected issues. They examine issues from the strategic research perspective: terrorism, illegal drugs, fauna smuggling, organised crime (operating in, or having the potential to operate in Australia), corporate crime, community crime and areas of concern, environmental matters, illegal immigration, national defence and foreign intelligence activities. Students demonstrate knowledge of issues and procedures through selecting two areas for in-depth study and presentation as seminar papers.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB314 PUBLIC LAW 1: HUMAN RIGHTS**

This unit is of central importance in any course about law and the administration of justice. It provides a basis for the examination of some of the main issues of human rights and how this affects the operation of law. Its focus is upon current issues in Australia but set in a wider international context. More particularly it relates these themes to certain disadvantaged groups, including aborigines, women, ethnic minorities and children. Content includes: the nature of human rights; existing Australian legislation on human rights; civil and political rights; economic, social and cultural rights.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB316 PUBLIC LAW 2: ADMINISTRATIVE LAW**

The history of administrative law and the emergence at federal and state levels of statutory administrative and judicial review; legal principles in a social and political context; critical assessments of relevant legal structures and rules.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB317 PUNISHMENT SYSTEMS IN ACTION**

The work setting: the impact of organisational factors on staff; managerial styles; inmate/staff relations; staff/staff relations; custodial work - conflicts and techniques. Special groups: persistently recalcitrant prisoners; mentally disturbed prisoners; the criminally insane; life sentenced prisoners; inadequate prisoners; dangerous prisoners; victims inside; young offenders; women, indigenous people; protection - self and others. 'Treatment' and the correctional institution: organisation of treatment strategies; sentence management; specialist personnel - medical, psychiatry, psychologist, social/welfare workers, educationist; the chaplaincy. Correctional officers: role as change agents.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSB318 CONTEMPORARY ISSUES & TRENDS IN MODERN PUNISHMENT ADMINISTRATIONS**

Evaluations of the models of penology. Controversial issues in corrections: death penalty; conjugal rights; homosexuality; aides and prison life; therapeutic communities. Returning to the community: reintegration difficulties; furloughs. Recidivism. The victim's place in the penal system. Society's perception/influence on prison: retribution; punishment; rehabilitation; protection. Fiscal constraints and overcrowding. Hidden agenda of imposing criminal status. Measuring success. Evaluation of the overall effectiveness of the penal system - present and future. International trends. The future prison.

Courses: JS31, JS33, LW41 **Prerequisite:** JSB108
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS001 THE LAW & LEGAL INSTITUTIONS**

Provides students with a sound knowledge of relevant legal institutions and procedures, as well as assists students to develop an ability to analyse and critique both the strengths and weaknesses inherent in our legal system. In so doing, the unit traces the development of law in Australia from its early beginnings to the present, as an outcome of meeting the needs of a changing society.

Course: ED50
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS002 LAW OF CONTRACT**

The development of the law of contract; law governing the formation of contracts; application of the principles of contract law; matters affecting the validity of contracts; remedies for breach of contract; role of equity in modifying common law rules of contract; rational and objective methods in analysing socio-legal issues in contracts.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS003 LAW OF TORTS**

The theoretical bases of Law of Tort in Australia; different types of tort and remedies; application of Law of Tort to case studies; examination of principles through specific decisions in Tort; Tortion remedies available within the social context.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS004 CRIMINAL LAW & PROCEDURE**

The theoretical basis of Criminal Law in Queensland; application of the law to case studies; use of rational and objective methods when examining legal issues; how criminal law operates in practice within a legal and social context; analysis of the balance between the rights of citizens and police powers.

Course: ED50

Prerequisite: JSS001
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS005 INDIVIDUAL LEGAL RESPONSIBILITIES**

Society demands certain responsibilities from persons classed as adult. Rights and duties fall to the adult person in some of the most important aspects in the accepted lifestyle in our society in terms of housing, relationships and employment. These responsibilities will encompass the majority of adult life. A reasoned analysis of the legal responsibilities involved in housing, marriage and employment is essential.

Course: ED50

Prerequisites: JSS001
Co-requisite: JSS001
Credit Points: 12 **Contact Hours:** 3 per week

■ **JSS006 INTRODUCTION TO LAW & SOCIAL JUSTICE**

The tradition of law as it has evolved in a variety of socio-historical settings as well as the evolution of the specific British/Australian tradition of law; how different concepts of law have evolved; the impact of different views of human nature, political values, and philosophical values on the role of justice and society.

Course: ED50

Prerequisites: JSS001, JSS004
Credit Points: 12 **Contact Hours:** 3 per week

■ **LAB320 STUDIES IN LANGUAGE**

The language basis in current approaches to the teaching of English; nature and function of language; dynamics involved in interactive situations; appropriateness of language forms used in various social contexts; educational implications of linguistic diversity within the community; recognition of the developmental features of adolescent language.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ **LAB321 WRITING WORKSHOP**

The student, as writer, uses all the language modes in social contexts (either genuine or simulated) to lead to writing in a range of situations. Engagement in these writing situations is designed to bring about personal understanding of the following; the nature of the writing process; the influence of audience and purpose on

the final written product; the range of genres (or forms) falling within the writing activity.

Courses: ED50, ED51 **Prerequisite:** LAB320
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB322 LITERATURE IN TEACHING

Literature teaching in historical perspective; recent developments in theory; poetry in the senior school; teaching drama in the senior school; teaching the novel in the senior school; shorter works (novellas, short stories) and their use in the English curriculum.

Course: ED50 **Prerequisite:** LAB320
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB323 TEACHING ADOLESCENT LITERATURE

The scope and nature of young adult literature; strategies for evaluation and selection; recent research into adolescents' reading needs, interests and responses; using young adult books in the curriculum.

Course: ED50 **Prerequisite:** HUB100
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB325 ENGLISH CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54 **Prerequisites:** Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB326 ENGLISH CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** LAB325
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB327 FILM & MEDIA CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54 **Prerequisites:** Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB328 FILM & MEDIA CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** LAB327
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB329 LOTE CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning

experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ LAB330 LOTE CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** LAB329
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB331 LANGUAGE PROGRAMMING & ASSESSMENT

Development of an understanding and ability to design programs for promoting and monitoring individual language development through the study of: a structure and process for programming; objectives as a framework for programming and assessment; language resources for classroom use; classroom program development; and monitoring effectiveness.

Courses: ED50, ED51 **Prerequisite:** LAB338
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB332 CHILDREN'S LITERATURE IN THE PRIMARY CURRICULUM

Explorations of the role of children's literature in the primary school; criteria for selecting children's literature; exploration of the various literary genres; leading to the use of literature as an integrating device in the development of programs in the primary school.

Course: ED51 **Prerequisite:** LAB338
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB333 LANGUAGE IN KEY LEARNINGS

The relationship between language and learning; the role of language across the curriculum, language in critical literacy and assessment.

Course: ED51 **Prerequisite:** LAB338
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB334 PRIMARY LOTE CURRICULUM STUDIES

This unit introduces concepts and skills in LOTE curriculum and methodology and prepares appropriately qualified students to teach French, German, Indonesian or Japanese in the upper primary school.

Course: ED51 **Prerequisite:** LAB338
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB335 LITERATURE IN TEACHING

Reading, literary response, and literature teaching in historical perspective; redefinitions of literature; reading practices and positions; contemporary approaches to integrating the teaching of reading and writing; issues in the literature classroom eg. criteria for text selection, censorship, and levels of response.

Course: ED51 **Prerequisite:** LAB338
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB336 LINGUISTICS IN TEACHING

This unit complements LAB335 by providing a systematic study of linguistics, and in particular Systemic Functional Linguistics, in a range of language learning settings at home and at school.

Course: ED51 **Prerequisite:** LAB335
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB337 WORKSHOP FOR WRITERS

Develops an understanding an ability to compose a range of texts for presentation in spoken, written, dramatic or audiovisual presentation. Students are involved

in: the exploration of relevant personal and social issues; the composition and critical analysis of a range of texts; and reflection upon the language features and processes appropriate for composing and presenting effective texts.

Course: ED51 **Prerequisite:** LAB336
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB338 CLASSROOM LANGUAGE LEARNING

Promotes an understanding and ability to develop language learning activities, process and strategies through the study of: a functional view of language; the concept of genre, the child as a language learner; resources for language learning; strategies for promoting mastery of genre and associated language.

Course: ED51 **Prerequisite:** EDB324
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB339 ADULT LITERACY AND SECOND LANGUAGE LEARNERS

Explores the special literacy needs of second language learners and investigates teaching approaches which recognise these needs and develop cross-cultural awareness and communication strategies. Topics include a comparison of first and second language literacy; the relationship between second language oracy and literacy; issues in cross-cultural communication; the literacy impact for non-English speaking background learners of current policy initiatives and workplace practices needs analysis in second language literacy course design.

Course: ED54
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB340 LANGUAGE, TECHNOLOGY & EDUCATION

Foundational perspectives on language, technology and communication in educational contexts; language as functional system and social semiotic; educational implications of the interconnections among language, technology, discourse and power; the student as reader and writer of academic prose; introduction to the language and technology of instruction.

Courses: ED50, ED51, ED52, ED54
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB410 LANGUAGE CURRICULUM ISSUES

A critical examination of the issues underpinning language education today and an action research project into classroom innovation or a detailed child study of language development.

Course: ED26
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB440 RECENT DEVELOPMENTS IN THE TEACHING OF WRITING

Development of writing in the light of the language in use model, recent research, and classroom practice. It is designed for the P-12 teacher. Students are expected to develop their own folio of writing, an understanding of current approaches to writing curriculum, and writing programs for their classrooms.

Course: ED26
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB441 CHILDREN'S LITERATURE

Evaluative criteria in children's literature; genres; teaching strategies for promoting the use of children's literature; reader response theories.

Course: ED26
Prerequisites: Language arts and literature studies at Diploma of Teaching level.

Credit Points: 12 **Contact Hours:** 3 per week

■ LAB442 TUTORING PARENTS AS LITERACY TUTORS

Parents are the most valuable resource available to teachers in the nineties. Today, with more emphasis on involving parents in all areas of decision making in schools, it is vital that teachers can communicate proficiently with parents of all educational and socioeconomic backgrounds. This provides background knowledge and practice in the skills and knowledge required for successful tutoring of parents as literacy tutors of their children.

Course: ED26
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB443 TRENDS IN THE TEACHING OF READING

Provides students with the opportunity to extend their understanding of the reading process; examines current views about reading in order to identify key concepts of the theory; implications for classroom practice are drawn; identifies factors which influence readers and texts; the roles these play in the understanding of the meanings made; develops learning situations based on these understandings.

Course: ED26
Prerequisites: Studies in the teaching of reading at Diploma of Teaching level.

Credit Points: 12 **Contact Hours:** 3 per week

■ LAB445 LANGUAGE LEARNING THROUGH FLIP

Designed for students who fulfil guidelines 6.1 and 6.2 of FLIP. As well as presenting a learning log, students develop an action research project in language/literacy and report on that project (preferably in a symposium). In their report, students are expected to display a critical understanding of the issues in language curriculum relevant to their research.

Course: ED26
Credit Points: 12 **Contact Hours:** 3 per week

■ LAB446 GRAMMAR FOR WRITERS

Designed to help teachers develop some systematic knowledge about language and grammar in particular. It looks at the questions: What is grammar?; What grammars are available to us? It then focuses in some detail on systemic functional grammar.

Course: ED26
Credit Points: 12 **Contact Hours:** 3 per week

■ LAN602 FUNCTIONAL GRAMMAR AND DISCOURSE

An introduction to functional grammar and discourse semantics. These provide tools for analyses of how texts make meaning – whether spoken or written, whether for pedagogical or research purposes.

Courses: ED13, ED11 **Credit Points:** 12

■ LAN608 SECOND LANGUAGE ACQUISITION

Research into second language acquisition is providing new insights into the complex processes involved in natural and instructed language development. This unit extends participants' knowledge of research into, and theories of, second language acquisition, and explores pedagogical implications and the relevance of research and theories to the enhancement of second language acquisition and learning.

Courses: ED14, ED13, ED11 **Credit Points:** 12

■ LAN611 ADULT AND WORKPLACE LITERACY AND NUMERACY

An exploration of how the field of adult literacy and numeracy has evolved; the changing nature and roles of literacies and numeracies in contemporary societies;

how literacy and numeracy practices are embedded in particular settings, eg. workplaces, and how cultural, political and economic factors impinge on adult literacy and numeracy learning in different contexts.

Courses: ED13, ED11 Prerequisites: CUN605
Credit Points: 12

■ LAN612 PRINCIPLES OF SECOND LANGUAGE METHODOLOGY

The range of approaches to second language learning and the theories of language and learning which underpin them. Theories of language and learning and their implications for TESOL; the social context of learning and its impact on methodological decision-making; current approaches and methods in TESOL; the roles of teachers and learners in the TESOL classroom.

Courses: ED14 Credit Points: 12

■ LAN613 SECOND LANGUAGE CURRICULUM DESIGN OPTIONS

The factors which influence teachers in the development of language programs. Includes analysis of the following areas: learner profiles and needs; aims and objectives; processes and criteria for selecting methodology; content selection and sequencing; choice and evaluation of materials and resources.

Courses: ED14 Credit Points: 12

■ LAN614 RESEARCH METHODS IN SECOND LANGUAGE EDUCATION

This unit will introduce students to methods and techniques which are used by classroom teachers and language educators to undertake small and large scale research projects and to report research findings in journals and other publications.

Courses: ED14 Credit Points: 12

■ LAN615 DIRECTED READING IN SECOND LANGUAGE EDUCATION

This unit provides an opportunity for teachers and others involved in TESOL to review current research articles to gain an overview of developments in TESOL/ Applied Linguistics and to explore one or two personal interest areas in greater depth.

Courses: ED14 Credit Points: 12

■ LAN616 LANGUAGE ASSESSMENT AND PROGRAM EVALUATION IN TESOL

Theories and practices in program evaluation, language testing and proficiency assessment. It examines and evaluates standardised tests and instruments which are used to assess the English language proficiency of speakers for whom English is a second language.

Courses: ED14 Credit Points: 12

■ LAN617 PERSONALISED LANGUAGE DEVELOPMENT

Language learning is a life long task. This unit allows teachers to take a program of language development aimed at improving their level of proficiency and enhancing their cultural awareness. Students wishing to take this unit should discuss options with the coordinator.

Courses: ED14 Credit Points: 12

■ LAN618 TECHNOLOGY AND SECOND LANGUAGE LEARNING

The twentieth century has seen a rapid change in the technology available to language teachers. An exploration of the creative teaching potential of this technology in areas such as computer enhanced language learning (CELL), interactive multimedia (including CD-ROM and video disc) and the use of linear video, word processing and audio materials. The unit will also

explore access to and pedagogical uses of electronic communication such as e-mail, list servers and bulletin boards.

Courses: ED14

Credit Points: 12

■ LAN619 DISCOURSE ANALYSIS

When we use language to enact our everyday lives, to teach and to learn, we use texts to do so. This unit provides a means for analysing and understanding how texts make meaning linguistically. Students will engage in analysis and discussion of text level meaning via genre, register and cohesion; clause level meaning via Transitivity, Mood and Theme/Rheme; group level meaning making via nominal, verbal and prepositional groups, and the significant linguistic features of written as contrasted with spoken language.

Courses: ED14

Credit Points: 12

■ LAN620 LANGUAGE AND CULTURE

The relationship between language and culture; that is, how language is a social phenomenon whose use varies according to context. This close relationship is particularly relevant in crosscultural settings such as the ESL classroom.

Courses: ED14

Credit Points: 12

■ LAN621 TEXTUAL AND CULTURAL STUDIES FOR ENGLISH EDUCATION

A critical study of recent literary and cultural theories, curricular and teaching materials leads students to consider how curricula and pedagogy, teachers and learners have been variously constituted according to theoretical discourses of textuality and culture.

Courses: ED13, ED11

Credit Points: 12

■ LAP401 ENGLISH CURRICULUM STUDIES 1

Introduction to English curriculum and its role in secondary education; examination of relevant English syllabuses and demonstration of ways to translate language learning principles into lesson plans and curriculum units.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ LAP402 ENGLISH CURRICULUM STUDIES 2

Continuation of LAP401. Content, processes and materials appropriate to the planning and implementation of English programs; methods of assessment; current professional issues in English teaching.

Course: ED37

Prerequisite: LAP401

Credit Points: 12

Contact Hours: 3 per week

■ LAP403 LOTE CURRICULUM STUDIES 1

Current theories and practice in LOTE teaching/learning with particular reference to the Queensland context.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ LAP404 LOTE CURRICULUM STUDIES 2

Continuation of LAP403. Development of a practical theory of teaching based on an understanding of the LOTE context in Queensland; development of language programs and teaching resources which are responsive to the diverse needs of learners.

Course: ED37

Prerequisite: LAP403

Credit Points: 12

Contact Hours: 3 per week

■ LAP405 FILM & MEDIA CURRICULUM STUDIES 1

Introduction to the Film and Media curriculum and its role in secondary education; examination of relevant media syllabuses and demonstration of ways to

translate concepts in media education into lesson plans and curriculum units.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ LAP406 FILM & MEDIA CURRICULUM STUDIES 2

Continuation of LAP405. Content, processes and materials appropriate to the planning and implementation of Media Studies programs; methods of assessment; current professional issues in media teaching.

Course: ED37

Prerequisite: LAP405

Credit Points: 12 Contact Hours: 3 per week

■ LAP407 ENGLISH AS A SECOND LANGUAGE CURRICULUM STUDIES 1

Introduction to the design and development of curriculum, materials and resources to meet the general and specific needs of learners who are non-native English speakers and who require higher English language proficiency levels for study purposes.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ LAP408 ENGLISH AS A SECOND LANGUAGE CURRICULUM STUDIES 2

Continuation of LAP407 showing students how curriculum, materials and resources are implemented through appropriate approaches, methodologies and techniques for individuals, groups or whole classes of learners who are non-native speakers of English.

Course: ED37

Prerequisite: LAP407

Credit Points: 12 Contact Hours: 3 per week

■ LAP409 PRIMARY LOTE CURRICULUM STUDIES 1

Current theory and practice in LOTE teaching/learning in the primary school with particular emphasis on the intellectual, physical, emotional and social needs of young learners and the need for teaching approaches drawn from general educational theory together with an understanding of second language acquisition.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ LAP410 PRIMARY LOTE CURRICULUM STUDIES 2

Continuation of LAP409. Content, processes and materials appropriate to the planning and implementation of LOTE programs in the primary school which integrate culture and language, articulate with the rest of the primary curriculum, and learners become more interested in, and aware of, languages and cultures other than their own.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ LAP440 LANGUAGE & LITERACY 1

The role of language in society; how language changes according to the purpose for which it is used as well as the social and cultural contexts; the functions and structure of a range of genres; the contribution of the home to children's language development.

Course: ED36

Credit Points: 12 Contact Hours: 3 per week

■ LAP441 LANGUAGE & LITERACY 2

Development of a range of strategies/activities which promote language learning in a classroom; techniques/instruments for observing and monitoring language growth. Preparation and development of a unit of language experiences for a class.

Course: ED36

Prerequisite: LAP440

Credit Points: 12 Contact Hours: 3 per week

■ LAP501 FOUNDATIONS OF TEACHER-LIBRARIANSHIP

Philosophy and theories of teacher-librarianship and interpersonal communication necessary to be responsive to the needs of school communities and emerging educational trends.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

■ LAP502 CURRICULUM & RELATED RESOURCES

Current curricula P-12: content and processes; evaluative criteria for the selection of materials across the curriculum; basic reference and information sources; collection development.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

■ LAP503 LITERATURE & LITERACY: RESOURCES & STRATEGIES

Resources and strategies for teacher-librarians to enable them to work with teachers in language across the curriculum; developmental approach to reading and the selection of materials; genre studies; reader response theories; promotion strategies.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

■ LAP504 SCHOOL LIBRARY RESOURCES: ORGANISATION & ACCESS

School library administration and organisation systems, including computer applications; bibliographic organisation and implications for self-directed learning; organisation and maintenance of, and access to, resources including equipment; field program, including school experience (3 weeks).

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

■ LAP505 COMMUNICATION & MANAGEMENT IN SCHOOL LIBRARY RESOURCE CENTRES

Studies in management of school library resource centres; goal setting; time management, communication models; interpersonal and organisational communication patterns; problem solving and conflict management; innovation, intervention and change; advocacy and promotion; writing for a purpose.

Course: ED25

Prerequisite: LAP501

Credit Points: 12

■ LAP506 INFORMATION SERVICES FOR SCHOOLS

Implications of the information age; advanced reference skills; computer-based information services with in-depth study of two, selected by the student.

Course: ED25

Prerequisite: LAP502

Credit Points: 12

■ LAP507 AUSTRALIAN LITERATURE FOR YOUNG PEOPLE

History of Australian children's books to 1959; development and critical assessment of Australian children's literature since 1960 in book and film.

Course: ED25

Credit Points: 12

■ LAP509 DIRECTED STUDY

An individually designed unit which allows students, under the staff supervision, to increase their knowledge relevant to teacher-librarianship.

Course: ED25

Credit Points: 12

■ LAP510 INTERACTIVE TECHNOLOGIES IN INSTRUCTION

Interactive communications and resources; videodisc; teleconferencing; computer conferencing; electronic

mail; planning an instructional program.

Course: ED25

Credit Points: 12

■ LAP511 LITERACY EDUCATION & LIBRARIES

Educational role of libraries; literacy and basic education programs; literacy resource collections; multicultural library services; international developments.

Course: ED25

Credit Points: 12

■ LAP512 LITERATURE FOR YOUNG PEOPLE

Historical development of imaginative literature; evolution of books for young people in present social and cultural contexts; writers and illustrators from European, Commonwealth and American countries; teaching strategies for eliciting reader responses.

Course: ED25

Credit Points: 12

■ LAP513 MEDIA LITERACY & THE SCHOOL

Mass media communication processes and their implications for teaching and learning; semiotics; influences of media on people; advertising and mass media research techniques; media ownership issues; future trends in mass media technologies.

Course: ED25

Credit Points: 12

■ LAP514 REFERENCE SERVICES & MATERIALS

Extension of studies in reference and information services relevant to schools; reference interview; using an existing school's resource collection; knowledge and use of information agencies and services external to the school. External with 3-day study school or six 2-hour evening sessions.

Course: ED25

Credit Points: 12

■ LAP515 RESOURCE SERVICES FOR SPECIAL NEEDS

Resource services designed for students with special needs relating to physical or intellectual impairments, socio-economic or cultural circumstances; the theory and practice of mainstreaming; the inclusive School Resource Centre.

Course: ED25

Prerequisite: LAP502

Credit Points: 12

■ LAP516 SPECIAL SEMINAR

Study of a specific aspect of teacher-librarianship, the unit to be determined by the University according to need and/or the availability of special expertise.

Course: ED25

Credit Points: 12

■ LAP517 STORYTELLING

Function of the story and storytelling in learning and teaching; preparing, developing and delivering stories; resources; storytelling across the curriculum.

Course: ED25

Credit Points: 12

Contact Hours: 3 per week

■ LAP518 VISUAL LITERACY & RESOURCE DESIGN

Visual literacy; learning styles; interpretation; design and evaluation of visually-based resources.

Course: ED25

Credit Points: 12

■ LAP521 PROGRAM DEVELOPMENT, IMPLEMENTATION & ASSESSMENT IN ADULT LITERACY

Existing adult literacy programs and resources; the language and communication principles underlying effective literacy programs and specific programs for defined adult literacy needs.

Courses: ED22, ED66, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LAP522 SPECIFIC GROUPS OF ADULT LITERACY LEARNERS

The characteristics of the literacy problems, needs and applications and the different learning styles of specific adult groups defined as having limited literacy: non-native English speakers; physically disabled; intellectually disabled; emotionally disabled.

Courses: ED22, ED66, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LAP523 UNDERSTANDING ADULT LITERACY

The extent, manifestations, complex causes and personal and social effects of adult literacy problems in Australia: placing those problems within a framework of changing definitions of literacy and current policies and provisions for adult literacy.

Courses: ED22, ED66, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LAP524 TEACHING & LEARNING IN ADULT LITERACY

The diversity of adult learning styles, the relationships between oral language, reading, writing and visual literacy, the uses of literacies as social practices, the role of libraries in adult literacy, and methods of assessing both adult literacy development and resources for adult literacy teaching.

Courses: ED22, ED66, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LAP525 ISSUES IN LANGUAGE LEARNING

The teaching implications of a number of literacy issues, such as: intergenerational literacy; discourse structures; language and power; the political nature of literacy; critical literacy; plain English; workplace literacies; the needs of NESB students.

Courses: ED22, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LAP526 INDEPENDENT PROJECT IN ADULT LITERACY

Students explore a particular perspective on adult literacy of interest and relevance to them and present their findings in a student symposium. Topics which may be chosen could include: adult literacy in correctional institutions; urban aboriginals and adult literacy; technical literacy/competency-based training; delivery of adult literacy to remote locations.

Course: ED22

Credit Points: 12

Contact Hours: 3 per week

■ LAP601 LANGUAGE IN USE

Formal systems of language: the sentence, including phonology, morphology, syntax and semantics; formal systems of language beyond the sentence, including discourse, cohesive pragmatics and paralinguistic. Language in social-cultural contexts; standard and non-standard varieties of language, including dialects, sociolects and language in contact.

Course: ED60

Credit Points: 12

Contact Hours: 3 per week

■ LAP602 LANGUAGE TEACHING IN PRACTICE

Strategies for observation of second language lessons; analysis of the linguistic content of a variety of lessons; application of these principles.

Course: ED60

Credit Points: 12

Co-requisite: LAP601

Contact Hours: 3 per week

■ LAP603 THE NATURE OF LANGUAGE LEARNING

Behaviouristic, cognitive and psychosocial explanations of second language acquisition/learning; the

effect of age; interlanguage and fossilisation; errors and error analysis; personality factors, cultural differences and environmental factors and language acquisition/learning; language proficiency; assessment.

Course: ED60

Credit Points: 12 Contact Hours: 3 per week

■ **LAP604 ESL MATERIALS & CURRICULUM**

Implementation of a communicative syllabus response to the objective and subjective needs of particular learners; principles for the evaluation, selection and production of teaching materials.

Course: ED60

Credit Points: 12 Contact Hours: 3 per week

■ **LEB304 CHILDREN WITH SOCIAL & EMOTIONAL DIFFICULTIES**

The overview of social and emotional development, theories of social and emotional development; adult-child relationships and issues of authority and discipline; the socialisation of emotions, expression of emotions, emotional disturbances; self concept and self-esteem.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ **LEB305 UNDERSTANDING CHILDREN WITH INTELLECTUAL DISABILITIES**

Introduction to intellectual impairment, cognitive development delay, slow learners and the most prevalent conditions which include a degree of cognitive handicap; theory and practice relating to classroom responses in regular settings; assessment of functional attainments and planning learning in basic curriculum areas; second of four subjects which offer enhanced background in the mainstream integration of children with disabilities.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ **LEB331 MAINSTREAMING CHILDREN WITH LOW INCIDENCE DISABILITIES**

Introduction to a wide range of low incidence exceptionalities (eg. sensory impairments, developmental delay and health impairments such as Epilepsy, Asthma and Hepatitis etc); methods of managing associated disabling conditions; implementation and evaluation of programming; support and referral services.

Courses: ED50, ED51, ED52, ED54, ED37

Credit Points: 12 Contact Hours: 3 per week

■ **LEB332 TEACHING EXCEPTIONAL STUDENTS**

Integrates a basic understanding and application of learning theory as it applies to exceptional populations. Focuses on specialised approaches to teaching particular exceptional groups. Provides an opportunity for development of specialist skills and resources in one of the following areas: (a) students with learning difficulties; (b) gifted students; (c) students with low incidence disabilities eg. hearing impaired, visually impaired or physically handicapped; (d) behaviourally or emotionally disturbed students.

Courses: ED50, ED51, ED52, ED54, ED37

Credit Points: 12 Contact Hours: 3 per week

■ **LEB333 ADULT LEARNING AND DEVELOPMENT**

The psychological foundations of human learning and development with special emphasis on adults. Contemporary theories and research issues such as cognition and learning, the effect of motivation on learning, understanding group dynamics, self/identity development, and creating effective learning environments will be explored.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB334 ACQUISITION AND ADAPTABILITY OF WORKPLACE KNOWLEDGE AND SKILLS**

Explores the underlying theoretical constructs which may enhance the acquisition of knowledge and skills. In accord with the National Training Reform Agenda, issues such as multi-skilling, contextualised learning, intervention to accelerate performance, and transfer of knowledge and skill are addressed.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB335 HUMAN DEVELOPMENT & EDUCATION**

Life span development for students interested in early childhood, primary, secondary, or adult education. Theoretical perspectives on human development; social, emotional and moral development; physical and motor development; cognitive and language development; current issues in human development.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB336 PSYCHOLOGY OF LEARNING & TEACHING**

Theories of learning, together with related ideas and concepts, and their implications for educators, especially in terms of their capacity to respond to the needs of all learners and to design, organise and manage environments for learning.

Courses: ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB337 GIFTED LEARNERS**

This unit provides a framework for understanding and evaluating the needs of gifted learners. It emphasises identification, learning and teaching styles, sound emotional issues, research findings and resources associated with gifted learners. Provision is also made for some practicum work with gifted learners.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB338 THE INDIVIDUAL IN ADULT AND WORKPLACE EDUCATION**

Tailoring instruction to the needs and strengths of individuals and acquiring confidence in planning, organising and implementing learning experiences. The focus ranges from setting up initial meetings to creating responsive positive learning environments and evaluating outcomes in terms of individual learners.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ **LEB420 INTERPERSONAL PSYCHOLOGY IN EDUCATION**

Historical development and major principles of interpersonal psychology; concepts related to the formation and development of interpersonal relationships; particular concepts and their application to education; interpersonal relationships with exceptional students; emotionality; models of effective teaching; self-concept; small group development; applications of interpersonal psychology. Study school for external students strongly recommended.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **LEB421 APPLIED STRATEGIES IN CLASSROOM LEARNING**

Contemporary theoretical approaches to human development and learning; dimensions and correlates of

learning; developing teaching/learning strategies; gathering and interpreting information; consideration of a range of advanced teaching/learning strategies.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB422 ADULT LEARNING

Contemporary theoretical perspectives and research in adult learning. Factors which influence learning. Application of theoretical perspectives to facilitate learning in adult educational environments.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB430 CREATIVITY IN PROBLEM SOLVING

Creativity is an often advocated, loosely discussed, presumed phenomenon much sought after as an educational objective both in general and as curriculum specific. This unit familiarises students with the history of this concept's emergence, its definitional problems, current theories and models, and to ensure that their presentation promotes the concept as an aspect of problem solving in personal development and pedagogical applications.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB431 INTERACTIVE TEACHING STRATEGIES

Classroom strategies for all grade levels (preschool through TAFE/university) and subject areas, based on the principles of cooperative learning and offered as alternatives to 'chalk and talk'.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB441 EDUCATIONAL COUNSELLING

The nature of counselling/helping in educational contexts; the educator as counsellor; characteristics of effective helpers, practical development of communications skills, building an empathic relationship; structuring the counselling process; application of some counselling theories to the educational contexts; practical sessions using educationally-based role plays to demonstrate effective use of the skills learned. Compulsory study school for external students. Incompatible with Studies in Counselling or equivalent at Diploma of Teaching level.

Courses: ED26, ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ LEB442 ADVANCED EDUCATIONAL COUNSELLING

The major theoretical approaches to counselling are applied to problems and concerns arising in the educational context. Theories include: psychoanalytic, adlerian, existential person-centered, Gestalt, transactional analysis, behaviour, rational-emotive, and reality. Skills and techniques associated with each major theory are presented and related to educationally-based problems and concerns. The effects and outcomes of counselling interventions.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB443 HUMAN SEXUALITY & LEARNING

Physical and psychological development; attitudes and beliefs about sex; sexuality and sex education in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual dysfunction; pregnancy; abortion; sex education in schools. Compulsory study school for external students.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB444 HUMAN SEXUALITY & DEVELOPMENT

Examines social and legal issues of human sexual behaviour; their impact on adult development and identity. Behaviours investigated are pregnancy, abortion, infertility, child sexual abuse, rape, pornography, prostitution and transsexuality.

Course: ED26

Prerequisite: LEB443

Credit Points: 12 Contact Hours: 3 per week

■ LEB445 STUDIES IN ALCOHOL & OTHER DRUGS

Drug use, misuse and abuse covers a very wide range of substances and situations. This unit, rather than focus on lurid details of the street drug scene, aims at developing an awareness that supportive elements contributing to an overall drug education strategy need to be found in every part of the curriculum. While a range of strategies is encountered, some may not even mention drugs while others may help young people handle specific situations.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB446 PSYCHOEDUCATIONAL ASSESSMENT

Assessment techniques and strategies in the educational context; assessment of intelligence, academic skills, aptitude, personality; reliability, validity, test construction and standardisation procedures; the process of administering assessment instruments in schools; interpretation of test results and assessment data; using assessment data in programming and placement in educational institutions.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB448 WORKING IN TEAMS

Teachers, administrators, students, parents and other professionals in education, health, welfare, and law often work together in different team situations. Individual and group processes that lead to effective team building and teamwork within schools or between agencies are studied, along with practical applications relevant to professionals taking this unit.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB449 NEW PERSPECTIVES ON TEACHING & LEARNING

Contemporary theoretical perspectives and research in learning; factors which influence learning; applications of theoretical perspectives to facilitate learning in a range of educational environments.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ LEB480 RESEARCH METHODS IN EDUCATION

Development of an awareness and understanding of the research process for a historical, sociocultural, ethical and theoretical perspective; the validity, applicability and suitability of various research strategies for specific educational endeavours; comprehension and evaluation of research findings drawn from a variety of perspectives, paradigms and methodologies; development of skills to conduct research appropriate to answer questions.

Courses: ED23, ED24, ED26, ED37, ED50, ED51, ED52, ED54

Credit Points: 12 Contact Hours: 3 per week

■ LEN602 ADVANCED EDUCATIONAL COUNSELLING

The major theoretical approaches to counselling are applied to problems and concerns arising in the educational context. Theories outlined include Psychoanalytic, Adlerian, Existential, Person-Centred, Gestalt, Transactional Analysis, Behaviour, Rational-Emotive, and Reality. Skills and techniques associated with each major theory will be presented and related to educationally based problems and concerns. The effects and outcomes of counselling interventions will be investigated and ethical issues will be addressed.

Courses: ED13, ED11 **Prerequisites:** LEB441

Credit Points: 12

Incompatible with: LEB442

■ LEN603 EDUCATIONAL COUNSELLING PROFESSIONAL PRACTICE

Professional practices of educational counsellors working in the P-12 context; intervention, prevention, affective, and developmental programs discussed; adolescent issues and career counselling outlined; consultation: models, theories and practices; Self-management skills highlighted: time management, program evaluation, accountability and decision-making discussed.

Courses: ED13, ED11

Credit Points: 12

■ LEN604 PSYCHOEDUCATIONAL ASSESSMENT

Assessment techniques and strategies; assessment of intelligence, academic skills, aptitude, personality; reliability, validity, test construction and standardisation procedures; the process of administering assessment instruments; interpretation of test results and assessment data; using assessment data in programming and placement.

Courses: ED13, ED11

Credit Points: 12

■ LEN605 LEARNERS WITH SPECIAL NEEDS: PROGRAMMING FOR INCLUSIVE EDUCATION

Special educational needs of children in early childhood, school (P-12) and post secondary settings arising from physical, cognitive, behavioural and socio-cultural differences; developmental screening; diagnosing student functioning in cognitive, social-emotional, self-help and motor skill areas; programming and curriculum decision making for children with special needs; techniques of formative and summative assessment appropriate to student learning needs; strategies for inclusive education; roles and models of support and advisory personnel including in-service strategies.

Courses: ED13, ED11

Credit Points: 12

■ LEN606 REMEDIATING OF LEARNING DIFFICULTIES

In-depth review of research of the impact of learning disabilities/difficulties and developmental delay on the learning of literacy from years 1-12 and in post secondary education; studies in language and its use in learning; assessment and monitoring techniques and approaches to literacy acquisition by students with learning difficulties/disabilities. Draws on developments in areas such as sociolinguistics, psycholinguistics, metacognition and process approaches to literacy and learning within an inclusive education framework.

Courses: ED13, ED11

Credit Points: 12

■ LEN607 CAREER EDUCATION AND CAREER GUIDANCE

Focus on career planning as a life-long process, emphasising that education and guidance programs focus on skill development for repeated decision making throughout the lifespan; the background and influence of career development theory; the complementary relationship between career education and career guidance. Educator and counsellor skills necessary to enable students to effectively assist career development are included.

Courses: ED13, ED11

Prerequisites: LEN602

Co-requisites: CPN606

Credit Points: 12

■ LEN608 FOUNDATIONS OF ADULT LEARNING AND DEVELOPMENT

Provides students an opportunity to develop an understanding of the complex nature of the adult learning and development process. This is achieved by exposing students to contemporary theories and strategies in adult learning and development and extending their knowledge to the adult and workplace environment. Key concepts such as the motivation, self directed learning and knowledge construction are addressed. Special emphasis is placed on transferring the theory to practice.

Courses: ED13, ED11

Prerequisites: CUN605

Credit Points: 12

■ LEP413 HUMAN DEVELOPMENT & LEARNING

An analysis of human development through the life span; exploration of how students learn; factors influencing effective learning and teaching.

Courses: ED35, ED36, ED37

Credit Points: 12

Contact Hours: 3 per week

■ LEP515 HUMAN SEXUALITY & LEARNING

Physical and psychological development; attitudes and beliefs about sex; sexuality and sex education in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual dysfunction; pregnancy; abortion; sex education in schools; focuses on issues related to teaching human sexuality.

Courses: ED22, ED67

Credit Points: 12

Contact Hours: 3 per week

■ LEP516 HUMAN SEXUALITY & DEVELOPMENT

An examination of social and legal issues associated with human sexual behaviour and their impact on adult development and identity. Behaviours investigated are pregnancy, abortion, infertility, child sexual abuse, rape, pornography, prostitution and transsexuality. Focuses on issues related to teaching.

Course: ED67

Credit Points: 12

Contact Hours: 3 per week

■ LEP518 HUMAN RELATIONSHIPS ACROSS THE LIFESPAN

The developmental processes; human development across the lifespan; development theory and research; development of human relations; the sociocultural context of development and relationships.

Courses: ED22, ED67, ED26

Credit Points: 12

Contact Hours: 3 per week

■ LEP519 INTERPERSONAL & PROFESSIONAL RELATIONSHIPS 1

An examination of the major concepts and models used to explain interpersonal relationship development, social influence and attitude change; the development of

communication and counselling skills and theoretical understandings.

Courses: ED22, ED67

Credit Points: 12 **Contact Hours:** 3 per week

■ LEP522 INTERPERSONAL & SMALL GROUP TEACHING STRATEGIES

Designed to provide human relationships educators with insight into the effects and usefulness of interactive and cooperative teaching strategies, and experience with their implementation.

Courses: ED22, ED67

Credit Points: 12 **Contact Hours:** 3 per week

■ LEP523 LEARNERS WITH SPECIAL NEEDS

Special educational needs of school (P-12) and TAFE college learners arising from cognitive, behavioural, sociocultural and physical disabilities and differences; learners with special educational needs; developing teaching/learning strategies suited to learners' needs. Participation in fieldwork experiences involves the investigation of the resource/support teacher's role in assisting students with special learning needs and collaborating with teachers and administrators.

Courses: ED24, ED75

Credit Points: 12 **Contact Hours:** 3 per week

■ LEP524 DEVELOPING RELATIONSHIPS & GROUPS

Overview of concepts relating to a model of interpersonal relationships; study of some human relationships concepts such as verbal and non-verbal interpersonal communication, power, influence, authority/control, trust and mistrust, confrontation and constructive resolution of conflict; interviewing and consulting skills; self concept studies; collaborative teaching and team building; students and teacher stress; assertion-related theory and skills; resource teacher as change agents for inclusive education.

Courses: ED24, ED75

Credit Points: 12 **Contact Hours:** 3 per week

■ LEP525 REMEDIATING LEARNING DIFFICULTIES

Review of significant learning difficulties among learners in schools (Years 4-12) and post secondary education in the areas of language/learning demands of the curriculum; composing and comprehending tasks as they relate to curriculum demands; test-wisness, note taking, organisation, examination stress; applications of the content is strongly based on an adjunct model of service delivery.

Courses: ED24, ED75

Credit Points: 12 **Contact Hours:** 3 per week

■ LEP526 STUDY SKILLS, LITERACY & LEARNING

Review of significant learning difficulties among learners in schools (Years 1-12) and post secondary education; foundation studies in language and learning; assessment and monitoring of literacy related curriculum tasks; test interpretation and development; related approaches to teaching, informed by principles derived from psycholinguistics, metacognition and process approaches to literacy; adjunct model of service delivery.

Course: ED24

Credit Points: 12 **Contact Hours:** 3 per week

■ LPN300 RESEARCH DISSERTATION

A research dissertation of approximately 20,000 words. It is expected that the research dissertation relates to one of the core unit areas covered in the Graduate Diploma in Legal Practice and have an applied law orientation. Unit may be undertaken in various loads.

Credit Points:

LPN300 = 24 credit points per semester

LPN301 = 48 credit points per semester

LPN302 = second 24 credit points per semester

LPN303 = 12 credit points per semester

LPN304 = second 12 credit points per semester

■ LPP001 LEGAL PRACTICE

Course: LP41

Credit Points: 96

■ LSB001 INTRODUCTORY BIOLOGY

Designed for students who have not studied Senior Biology. It presents an overview of organisms with emphasis on the relationship between structure and basic biological function, including nutrition, excretion, reproduction and inheritance.

Courses: SC30, ED50

Credit Points: 6 **Contact Hours:** 3 per week

■ LSB118 INTRODUCTION TO LIFE SCIENCE

An introduction to the study of life processes, with cells and organisms as the central point of reference. Cellular function is described at the tissue and organ levels; the interactions of organisms at the population and community levels are used to explain fundamental concepts of ecology; the diversity of life on Earth is presented in phylogenetic and evolutionary terms; molecular biotechnology is introduced as a tool that assists both the mapping of populations and communities, and the diagnosis of organism malfunction.

Courses: ED50, LS36, SC30

Co-requisites: For SC30, LSB001 recommended where Senior Biology has not been undertaken

Credit Points: 12 **Contact Hours:** 6 per week

Incompatible with: LSB122

■ LSB122 BIOLOGY 1

The structure, function and reproduction of living organisms at the molecular, cellular and whole organism levels; the interaction of organisms in communities, ecosystems and globally.

Courses: ED50, PU42, SC30

Co-requisites: LSB001 or Senior Biology

Credit Points: 12 **Contact Hours:** 5 per week

■ LSB130 ANATOMY 1

Structure of the generalised cell, epithelium, connective tissue, bone and cartilage, muscle tissue, nervous tissue, and cardiovascular system; the gross anatomical study of the skeletal, articular, and cardiovascular systems.

Course: OP42

Credit Points: 8 **Contact Hours:** 3 per week

■ LSB131 ANATOMY

Basic concepts of anatomy; overview of the structure of cells, body tissues, and body systems as well as aspects of surface anatomy which are relevant to human movement; musculoskeletal systems.

Courses: ED50, HM42, ME46

Credit Points: 12 **Contact Hours:** 6 per week

■ LSB132 CELL BIOLOGY

Cells viewed at the molecular level (membranes, proteins and nucleic acids); cells viewed at the microscopic level (membranes, organelles); cellular metabolism; cellular biophysics; cells in division (DNA, genes, chromosomes, protein biosynthesis); cells diversity.

Course: ME46 **Prerequisites:** LSB131, LSB231

Credit Points: 8 **Contact Hours:** 3 per week

■ LSB141 ANATOMY 1

A study of human anatomy; of the body as a whole, including a detailed study of the skeletal system.

Course: PH38

Credit Points: 10 **Contact Hours:** 4 per week

■ **LSB142 HUMAN ANATOMY & PHYSIOLOGY**

A grounding in the principles of human anatomy and physiology for students not intending to continue with further study in this area. An introduction to the structure of the cell; organisation of tissues; chemistry of life; major systems that constitute the human body.
Courses: ED50, PH80, PU42, PU44, PU48, PU49
Credit Points: 12 **Contact Hours:** 5 per week

■ **LSB150 HUMAN ANATOMY**

Ultrastructure of the generalised cell. Microscopic and macroscopic anatomy of epithelium, connective tissue, muscular tissues, nervous system, skeletal system, integument, cardiovascular system, lymphatic system, respiratory system, renal system, endocrine system, male and female reproductive systems.
Courses: LS36, SC30
Credit Points: 12 **Contact Hours:** 5 per week

■ **LSB151 HUMAN ANATOMY 1**

Structure of the generalised cell, epithelium, connective tissue, bone and cartilage, muscle tissue, nervous tissue, and cardiovascular system; the gross anatomical study of the skeletal, articular, and cardiovascular systems.

Courses: OP42, PU45
Credit Points: 8 **Contact Hours:** 3 per week

■ **LSB161 BIOLOGY**

An introduction to biology for students with no previous experience in the discipline. An overview of form and function in animal and plant systems; patterns and mechanisms of inheritance; fundamental ecological principles.

Course: OP42
Credit Points: 8 **Contact Hours:** 3 per week

■ **LSB171 ANATOMY & PHYSIOLOGY 1**

An integrated study of anatomy and physiology at the degree level. Emphasis is placed on gaining an appreciation of the relationship between structure and function at the levels of cells, tissues, organs and organ systems, initially the morphology and physiology of cells and tissues is examined. The skeletal, muscular, nervous and integumentary systems.

Course: PU48
Credit Points: 12 **Contact Hours:** 4 per week

■ **LSB181 ANATOMY**

The general principles of anatomy; macroscopic and some microscopic and ultrastructures of the human body; introductory surface and regional anatomy in relation to systemic anatomy. This unit also focuses on the areas of anatomy relevant to nursing.

Course: NS40
Credit Points: 8 **Contact Hours:** 3 per week

■ **LSB191 CLINICAL PHYSIOLOGY & PHARMACOLOGY**

The physiological basis of the pathogenesis, clinical features and principles of treatment of the major disorders of body function.

Courses: NS40 **Prerequisite:** LSB281
Credit Points: 8 **Contact Hours:** 3 per week
Incompatible with: PNB116, or PNB758, or PNB340 & PNB540 & PNB640, or PNB350 & PNB450 & PNB650.

■ **LSB221 INTRODUCTION TO PATHOLOGY**

Application of scientific methods to the study of disease processes. Correct understanding and use of pathological terms and concepts.

Course: PH38 **Prerequisite:** LSB141
Credit Points: 8 **Contact Hours:** 3 per week

■ **LSB222 BIOLOGY 2**

Macrobiology; populations of organisms, their interactions and association into communities, ecosystems, biomes and the global biosphere are studied in both qualitative and quantitative terms. The flow of energy and matter through the biosphere; the impact of humanity on this process; introduction to simple computer-based models of community ecology and ecosystem processes through practical sessions.

Course: ED50, SC30
Prerequisites: LSB001 or Senior Biology
Credit Points: 12 **Contact Hours:** 5 per week

■ **LSB228 ANIMAL AND PLANT STRUCTURE AND FUNCTION**

Emphasises on how functioning organisms reflect the integration of major biochemical processes. Initially, the structures of body systems are described from the functional viewpoint. Gas exchange, circulatory, reproductive and supportive systems are studied, then aspects of energy flow (photosynthesis/respiration) are considered. Finally, the regulation of organism function via biological positive and negative feedbacks, and hormonal systems, is outlined.

Courses: ED50, SC30
Prerequisites: LSB118 or LSB122
Credit Points: 12 **Contact Hours:** 5 per week

■ **LSB230 ANATOMY 2**

An extension of LSB130. An integrated course of lectures and practicals dealing with the macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, haemopoietic, endocrine and reproductive systems.

Course: OP42 **Prerequisite:** LSB130
Credit Points: 8 **Contact Hours:** 3 per week

■ **LSB231 PHYSIOLOGY**

The basic concepts of physiology and pharmacology. An overview of the functions of body systems so that students can understand biological disorders and pharmacological strategies which may be used in their treatment.

Courses: ED50, HM42, ME46
Credit Points: 12 **Contact Hours:** 6 per week

■ **LSB232 CELL BIOLOGY**

Introduction to cell structure and function in both eukaryote and prokaryote organisms; cell biology in relation to structure, function, systems, metabolism and differentiation in addition to basic molecular biology and genetic organisation; the molecular basis for genetic manipulation and other current advances based on molecular genetics.

Course: ED50 **Prerequisite:** LSB122
Credit Points: 12 **Contact Hours:** 5 per week

■ **LSB238 CELL & MOLECULAR BIOLOGY 1**

Introduction at the cell level to essential physiological and metabolic requirements fundamental to life processes. Topics include: the morphology, chemical and biochemical composition of microbial, plant and animal cells; the relationship between metabolism and energy status of cells; biomembrane function and the organisation of genetic material in cells.

Courses: ED50, LS36, SC30
Prerequisites: CHB142, LSB118
Co-requisite: CHB242
Credit Points: 12 **Contact Hours:** 5 per week
Incompatible with: LSB222

■ **LSB241 ANATOMY 2**

A course of lectures and practical exercises involving a basic, yet comprehensive, study of the anatomy and physiology of the various body systems.

Course: PH38
Credit Points: 10

Prerequisite: LSB141
Contact Hours: 4 per week

■ LSB250 HUMAN PHYSIOLOGY

Topics examined include: basic mechanisms – cells, fluids, electrolytes; energy metabolism; nutrients; transport mechanisms; blood; communication and control; excitable tissues; control systems – nervous and endocrine; maintenance systems – gastrointestinal; cardiovascular; respiratory; renal; integrated mechanisms – sexual development; pregnancy; parturition; lactation; control of growth; food intake; organic metabolism; body temperature; ECF osmolality and volume; blood pressure and flow; respiration; response to tissue damage; adaptation to stress. This unit includes a practical program of two hours per week.

Course: LS36

Prerequisite: LSB150

Credit Points: 12

Contact Hours: 6 per week

■ LSB251 MICROBIOLOGY

Basic microbiology with special emphasis on clinical microbiology; the characteristics of medically-important organisms, sterilisation and disinfection, host-parasite relationships, resistance and immunity, infectious diseases, diagnosis, selected microbial infections, chemotherapy and development of resistance by microorganisms.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ LSB260 QUANTITATIVE METHODS IN LIFE SCIENCE 1

Topics include: weighing procedures, pH measurement, ion selective electrodes, spectrophotometers, autotitrators, automatic pipettes and dispensers and volumetric ware; calibration of instruments, correct usage, maintenance and elementary trouble shooting; correct experimental procedure, quality control and statistical analysis.

Course: LS36

Credit Points: 12

Contact Hours: 5 per week

■ LSB261 SYSTEMATIC ANATOMY

An extension of LSB151. A unit dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine, muscular and reproductive systems and the basic macroscopic anatomy of the lower limb.

Course: PU45

Prerequisite: LSB161

Credit Points: 8

Contact Hours: 3 per week

■ LSB281 PHYSIOLOGY & PHARMACOLOGY

The basic principles of normal body function; an introduction to pharmacology.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

Incompatible with: PNB115 or PNB240 or PND241

■ LSB300 MICROBIOLOGY 3

An introductory core unit in microbiology dealing with cytology, nutrition, genetics control of microbial populations and principles of taxonomy.

Course: LS36

Prerequisite: LSB100

Co-requisite: LSB308

Credit Points: 8

Contact Hours: 4 per week

■ LSB301 MICROBIOLOGY 1

Explores the diversity of microorganisms in public health microbiology providing a basic foundation in microbial classification, structure and function, reproduction, ecology; the economic, environmental and public health significance of microorganisms; groups examined include: viruses, bacteria, yeasts and fungi, algae, protozoa, helminths and arthropod vectors.

Courses: PU42, PU44
Credit Points: 8

Contact Hours: 3 per week

■ LSB302 ANIMAL BIOLOGY 1

Together with LSB402, this unit provides the foundation in animal biology that is essential for later specialist units in population studies and aquaculture. It deals with non-chordates and covers the following topics: taxonomy, systematics, nomenclature, classification, ultrastructure, life histories, structure and physiology, and evolutionary trends.

Courses: ED50, SC30

Prerequisite: LSB122

Credit Points: 12

Contact Hours: 5 per week

■ LSB305 BIOCHEMISTRY

The structures and functions of proteins, carbohydrates, lipids and nucleic acids, basic enzymology, mechanisms of cellular energy production and the role of ATP; the metabolism of carbohydrates, lipids and amino acids and the fundamentals of protein biosynthesis and molecular biology.

Course: PU49

Prerequisite: CHB259

Credit Points: 12

Contact Hours: 5 per week

■ LSB308 BIOCHEMISTRY 3

The structure and function of organic macromolecules. Topics include: the chemistry and function of proteins; enzymology; thermodynamics; bioenergetics; the structure and chemistry of carbohydrates and lipids.

Courses: ED30, ED50, LS36, SC30

Prerequisites: LSB232, CHB282 or CHB242

Credit Points: 12

Contact Hours: 5 per week

■ LSB310 QUANTITATIVE LABORATORY TECHNOLOGY 3

Techniques encountered in the clinical laboratory. Topics include: immunoassay, enzymic analysis, electrophoresis, isoelectric focusing, gel filtration, ion exchange, and affinity chromatography. Emphasis is placed on the maintenance of accuracy, precision and quality control including statistical control in the clinical laboratory.

Course: LS36

Prerequisite: LSB210

Credit Points: 8

Contact Hours: 4 per week

■ LSB318 BIOCHEMICAL METHODOLOGY 3

A companion to LSB308 emphasising biochemical laboratory methods and practice and dealing with pH measurement and buffers, UV and visible spectrophotometry, chromatography, electrophoresis and isotope techniques.

Course: SC30

Prerequisites: CHB282, MAB237

Co-requisite: LSB308

Credit Points: 12

Contact Hours: 5 per week

■ LSB321 SYSTEMATIC PATHOLOGY

Diseases of the organ systems: cardiovascular, respiratory, alimentary, urogenital, nervous musculoskeletal, endocrine, haematologic and skin.

Course: PH38

Prerequisite: LSB221

Credit Points: 8

Contact Hours: 3 per week

■ LSB322 PLANT BIOLOGY

Plant biology: morphology, anatomy reproduction, taxonomy and identification in the plant kingdom; includes a small practical project; emphasis on species of economic value; a basis for further study in plant tissue culture, physiology and ecology.

Courses: ED50, SC30

Prerequisite: LSB122

Credit Points: 12

Contact Hours: 5 per week

■ LSB328 MICROBIOLOGY 3

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology,

nutrition, genetics control of microbial populations and principles of taxonomy.

Courses: ED50, SC30

Co-requisite: LSB308

Credit Points: 12

Prerequisite: LSB232

Contact Hours: 5 per week

■ LSB331 ADVANCED ANATOMY

Gross anatomy of the lower limb; anatomical knowledge fundamental to the understanding of the functional and applied aspects of podiatric anatomy; major topics: osteology, myology, arthrology, angiology and neurology.

Course: PU45

Co-requisites: LSB261, PNB302

Credit Points: 8

Contact Hours: 6 per week

■ LSB332 PLANT PHYSIOLOGY 1

Whole plant physiology and the functional systems of plants: an important unit for students continuing their studies in the plant biotechnology and ecology areas.

Courses: ED50, SC30

Prerequisite: LSB232

Credit Points: 12

Contact Hours: 5 per week

■ LSB340 PHYSIOLOGY 3

Maintenance systems: gastrointestinal; cardiovascular; respiratory; and renal systems. Integrated mechanisms: sexual development; pregnancy; parturition; lactation; control of growth, energy intake, organic metabolism, body temperature, ECF osmolarity and volume, blood pressure and flow, respiration; response to tissue damage and foreign matter; adaptation to stress and exercise.

Course: LS36 **Prerequisites:** LSB230 and LSB240

Credit Points: 8

Contact Hours: 4 per week

■ LSB341 REGIONAL & SECTIONAL ANATOMY

An expansion of the topics introduced in LSB141 and LSB241 to a detailed study of regional and sectional anatomy of the head, neck, thoracic, abdominal and pelvic regions of the human body.

Course: PH38, PH90

Prerequisite: LSB241

Credit Points: 8

Contact Hours: 4 per week

■ LSB351 HUMAN ANATOMY 3

An extension of LSB151. Lectures and practicals on basic embryology, structure and development of the eye, and gross and microscopic anatomy of the major organ systems of the human body.

Course: OP42

Prerequisite: LSB151

Credit Points: 10

Contact Hours: 5 per week

■ LSB352 POPULATION ECOLOGY

A broad theoretical background in the major concepts of plant and animal ecology; introduction to basic ecological models and modelling techniques. Topics include: ecology of single populations, life history and demography, interactions within and between populations, population regulation, management, behavioural ecology, energetics and biogeography.

Courses: ED50, SC30

Prerequisite: LSB222

Co-requisite: LSB362

Credit Points: 12

Contact Hours: 5 per week

■ LSB358 PHYSIOLOGY 2S

A review of basic mechanisms: cells, fluids, electrolytes; energy metabolism; essential nutrients; transport mechanisms; blood; communication and control; excitable tissues; control systems: nervous and endocrine.

Course: SC30

Prerequisite: LSB242

Credit Points: 12

Contact Hours: 5 per week

■ LSB361 FUNDAMENTALS OF MEDICINE

The theoretical basis for an understanding of the process of medical care. Students must understand the

nature of disease processes and the clinician's response to them in order to: design appropriate and efficient health information services for all types of health care facilities; communicate effectively with other health professionals involved in the care of patients; assist in research and quality assurance programs in the health services. A review of the important and frequently encountered diseases and disorders of the major body systems.

Course: PU48

Prerequisite: LSB271

Credit Points: 12

Contact Hours: 3 per week

■ LSB362 QUANTITATIVE METHODS IN LIFE SCIENCE

Emphasises practical considerations of field and laboratory-based experimentation in life science, and provides experience in problem assessment, definition and formulation of testable hypotheses.

Courses: ED50, SC30

Prerequisites: MAB237 or MAB447

Credit Points: 12

Contact Hours: 5 per week

■ LSB370 DISEASE PROCESSES

Principles of the study of disease and dealing with the causes and nature of circulation disorders, degenerative processes, metabolic and nutritional disorders, disturbances of development and growth, inflammation, infections and infestations, regeneration and repair, and neoplasia. Includes: the applications of general pathology to the study of diseases of the heart and circulatory system, digestive system, respiratory system, urogenital system, endocrine system, nervous system, haematologic system and skin.

Courses: LS36, OP42

Prerequisites: LSB151 or LSB130

Co-requisite: LSB306

Credit Points: 4

Contact Hours: 2 per week

■ LSB371 BIOCHEMISTRY 4

The structures and functions of proteins, carbohydrates, lipids and nucleic acids, basic enzymology, mechanisms of cellular energy production and the role of ATP; the metabolism of carbohydrates, lipids and amino acids and the fundamentals of protein biosynthesis and molecular biology.

Courses: OP42, PU45

Prerequisite: CHB242

Credit Points: 8

Contact Hours: 4 per week

■ LSB400 MICROBIOLOGY 4

An extension of the core unit in Microbiology (LSB300), including aspects of microbial taxonomy, food and water microbiology, microbial ecology, industrial and agricultural microbiology, and the role of microorganisms as infectious agents.

Course: LS36

Prerequisite: LSB300

Co-requisite: LSB408

Credit Points: 8

Contact Hours: 4 per week

■ LSB401 MICROBIOLOGY

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology, nutrition, genetics, control of microbial populations, and principles of taxonomy.

Course: PU45

Credit Points: 8

Contact Hours: 3 per week

■ LSB402 ANIMAL BIOLOGY 2

This unit, together with LSB302, provides the foundation in animal biology essential for later specialist units in population studies and aquaculture. The unit deals with chordates and covers the following topics: embryology, development, structure, physiology, classification and major evolutionary trends.

Courses: ED50, SC30

Prerequisite: LSB302

Credit Points: 12

Contact Hours: 5 per week

■ LSB405 MICROBIOLOGY

Introduction to different classes of microorganisms; basic characteristics of bacteria and bacterial nutrition; water microbiology; food preservation; food spoilage; food borne disease; food hygiene; microbial fermentation of foods.

Course: PU49

Prerequisite: CHB001

Co-requisite: CHB259

Credit Points: 12

Contact Hours: 5 per week

■ LSB408 BIOCHEMISTRY 4

Aspects of carbohydrate metabolism in mammals, the chemistry and metabolism of lipids, amino acids, the chemistry and function of porphyrins, metabolic integration.

Courses: LS36, SC30

Prerequisite: LSB308

Credit Points: 12

Contact Hours: 5 per week

■ LSB412 APPLIED ECOLOGY A

The theory and practice of methods used to determine and measure important population parameters and characteristics. The methods are an essential tool for the study of biological populations. Content includes estimation of population size, determination of dispersion patterns and detecting competition. Applications of methods are demonstrated using laboratory and field exercises.

Courses: ED50, SC30

Prerequisites: LSB352, LSB362

Credit Points: 12

Contact Hours: 5 per week

■ LSB418 BIOCHEMICAL METHODOLOGY 4

Extended studies of chromatographic and electrophoretic methods, protein binding techniques and the methodology of biochemical analysis.

Course: SC30

Prerequisite: LSB318

Co-requisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

■ LSB421 IMAGING PATHOLOGY

The appearances of pathology on medical images with particular emphasis on the radiographic image.

Course: PH38, PH90

Prerequisite: LSB321

Credit Points: 4

Contact Hours: 2 per week

■ LSB422 APPLIED ECOLOGY B

The principle and concepts of plant community ecology and ecosystem structure: biogeochemical cycles, soils, nutrient cycling, vegetation classification and mapping, and techniques for characterising the physical environment. Field work is incorporated.

Courses: ED50, SC30

Prerequisite: LSB352

Credit Points: 12

Contact Hours: 5 per week

■ LSB428 MICROBIOLOGY 4

An extension of LSB328; aspects of microbial taxonomy, food and water microbiology, microbial ecology, industrial and agricultural microbiology; microorganisms as infectious agents.

Course: SC30

Prerequisite: LSB328

Co-requisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

■ LSB430 IMMUNOLOGY 4

The mechanisms of the immune process including the nature of antigen, antibodies, antigen-antibody reactions, antibody formation, control of the humoral and cell-mediated immune responses, hypersensitivity and allergy, immunisation of man against infections.

Course: LS36

Prerequisites: LSB300 & LSB340

Credit Points: 8

Contact Hours: 4 per week

■ LSB431 MICROBIOLOGY 2

Continuation of LSB301. Topics covered include:

microbial growth and measurement; laboratory and field analysis; microbial control methods; food hygiene; water quality; principles of disease and epidemiology.

Courses: PU42, PU44

Prerequisite: LSB301

Credit Points: 8

Contact Hours: 3 per week

■ LSB432 GENETICS

An introductory unit in basic genetics. Topics include: the molecular basis of genetics, Mendelian genetics, nuclear and cytoplasmic inheritance, genotype-phenotype interactions, quantitative and behavioural genetics, and basic evolutionary theory.

Courses: ED50, SC30

Prerequisite: LSB122

Credit Points: 12

Contact Hours: 5 per week

■ LSB437 MOLECULAR BIOLOGY

Structure and biochemistry of the nucleic acids and methodologies for their analysis; genome organisation and replication in bacteriophages, plasmids, bacteria and eukaryotes; the enzymes involved in replication of DNA and RNA; nucleic acid isolation and purification; the mechanisms of transcription and translation of the genetic code in vivo.

Course: LS36

Prerequisite: LSB308

Co-requisite: LSB408

Credit Points: 8

Contact Hours: 4 per week

■ LSB438 IMMUNOLOGY 4

The mechanisms of the immune process: nature of antigen, antibodies, antigen-antibody reactions, antibody formation, control of the humoral and cell-mediated immune responses, hypersensitivity and allergy, and immunisation of man against infections.

Course: SC30

Prerequisites: LSB328, LSB242

Credit Points: 12

Contact Hours: 5 per week

■ LSB441 IMAGING ANATOMY

A study of the appearances on medical images of normal anatomy.

Course: PH38, PH90

Credit Points: 8

Contact Hours: 4 per week

■ LSB442 PLANT TISSUE CULTURE

A broad introduction to plant tissue culture. Techniques and media preparation leading to a coverage of micropropagation; topics include: organogenesis, embryogenesis, genetic variability, anther culture and secondary metabolite production. Some emphasis is placed on the tissue culture of horticultural crops and a field excursion may be included.

Courses: ED50, SC30

Prerequisite: LSB332

Credit Points: 12

Contact Hours: 5 per week

■ LSB450 HAEMATOLOGY 4

Introduction to the theory of the origin, development and composition of normal blood. Laboratory tests, principles, techniques and interpretation used in the screening of blood samples. Basic haematologic tests: preparation, staining and examination of blood films, determination of the red cell indices, supravital staining, erythrocyte sedimentation rate, screening tests used in the investigation of a bleeding disorder.

Course: LS36

Prerequisites: LSB230, LSB308, LSB310, LSB340

Co-requisite: LSB408

Credit Points: 8

Contact Hours: 4 per week

■ LSB451 HUMAN PHYSIOLOGY

A course of lectures and practicals. The lectures are the same as LSB240 and LSB340. Presented as a one semester program.

Courses: OP42, PU45

Prerequisites: LSB351 or LSB261

Credit Points: 12

Contact Hours: 7 per week

■ LSB452 MARINE STUDIES

Marine ecosystems, their importance to all life along the coastal areas and to people's livelihood; management and conservation of the sea; appreciation of its infinite value to humanity's changing lifestyle.

Courses: ED50, SC30

Prerequisite: LSB122

Credit Points: 12

Contact Hours: 5 per week

■ LSB458 PHYSIOLOGY 3S

A continuation of LSB358.

Course: SC30

Prerequisite: LSB358

Credit Points: 12

Contact Hours: 5 per week

■ LSB460 HISTOPATHOLOGY 4

An introductory unit presenting methods of preparing tissue samples for examination by the various methods of light and electron microscopy. Topics include: fixation, embedding, microtomy and an introduction to staining and microscopy techniques.

Course: LS36

Prerequisites: LSB230, CHB242

Credit Points: 8

Contact Hours: 4 per week

■ LSB461 FUNDAMENTALS OF MEDICINE 2

Continues the study of the process of medical care begun in LSB361. The roles and functions of allied health professions, and of technological services in the diagnosis and treatment of disease.

Course: PU48

Prerequisite: LSB361

Credit Points: 12

Contact Hours: 3 per week

■ LSB468 MOLECULAR BIOLOGY

An introduction to the structure and biochemistry of the nucleic acids and methodologies for their analysis. Topics include: genome organisation and replication in bacteriophages, plasmids, bacteria and eukaryotes; the enzymes involved in replication of DNA and RNA; nucleic acid isolation and purification; transcription and translation of the genetic code in vivo.

Courses: LS70, SC30

Prerequisite: LSB308

Co-requisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

■ LSB470 DISEASE PROCESSES 4

See LSB370.

Course: PU45

Credit Points: 8

Contact Hours: 4 per week

■ LSB480 PROFESSIONAL PRACTICE

Students (both full-time and part-time) undertake a 2-4 week work experience program.

Course: LS36

Contact Hours: 2-4 weeks

■ LSB485 AUSTRALIAN BIOLOGY

The geological and climatic history of the Australian continent, Australian ecosystems and the evolution of the Australian flora and fauna. Major groups of extant plants and animals are examined in some detail. While emphasis is placed on vertebrate animals, invertebrates of particular relevance because of their abundance, scientific interest or economic importance are discussed. The structure of selected plant communities and their social and economic relevance.

Courses: ED26, ED50

Prerequisites: LSB122

Credit Points: 12

Contact Hours: 3 per week

Incompatible with: LSB322

■ LSB491 MICROBIOLOGY 3

An introductory core unit of microbiology for students of optometry: with cytology, nutrition, genetics, control of microbial populations and principles of taxonomy in relation to optometry.

Course: OP42

Credit Points: 6

Contact Hours: 3 per week

■ LSB500 MICROBIOLOGY 5

Parasitology: the laboratory diagnosis of parasitic

disease in humans. Clinical virology: nature of viruses and propagation, cell culture of viruses, detection and diagnostic methods and viral infections in humans and animals. Clinical mycology: classification of mycoses, collection of material for culture and characterisation of fungi responsible for superficial, cutaneous, subcutaneous and systemic infections in humans.

Course: LS36

Prerequisite: LSB400

Credit Points: 16

Contact Hours: 7 per week

■ LSB502 PROJECTS 1

Develops the student's capacity for managing their own work. Projects emphasise specific investigatory skills in reviewing, collating, interpreting and presenting data; contribution to a seminar is usually required. Projects, supervised by staff members, are graded individually. The Head of School coordinates assessment, and may request external assessment. Projects are to be selected by Week 12 of the fourth semester of the course. There are a number of compulsory field trips. This unit leads into LSB602.

Course: SC30

Prerequisite: LSB362

Credit Points: 12

Contact Hours: 5 per week

■ LSB508 BIOCHEMISTRY 5

The catabolic and anabolic pathways for the major macromolecules in mammalian systems; non-mammalian metabolism; concepts in bioenergetics and thermodynamics in the context of cellular metabolism; integration of metabolism including production of mixed conjugates of biological significance such as amino-sugars and lipopolysaccharides, hormone action and regulation.

Course: SC30

Prerequisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

■ LSB517 PLANT TISSUE CULTURE 1

A broad introduction to plant tissue culture. Techniques and media preparation leading to a coverage of micropropagation. Topics include: organogenesis, embryogenesis, genetic variability, anther culture and secondary metabolite production. Some emphasis is placed on the tissue culture of horticultural crops and a field excursion may be included.

Courses: ED50, SC30

Prerequisite: LSB488

Credit Points: 12

Contact Hours: 5 per week

■ LSB520 CLINICAL BIOCHEMISTRY 5

Introduces the study of chemical aspects of human life in health and illness and discusses the application of chemical laboratory methods to diagnosis, control of treatment and prevention of disease. Topics include: kidney, pancreas, liver and gastric functions, the metabolism of lipids, carbohydrates and proteins.

Courses: LS36, SC30

Prerequisites: LSB408, LSB310, LSB340

Credit Points: 8

Contact Hours: 4 per week

■ LSB522 POPULATION MANAGEMENT

The principles of biological population management; natural populations and three forms of management; pest control, harvesting and conservation. Field trips and computer simulations are used to investigate management methods.

Course: SC30

Prerequisite: LSB352

Credit Points: 12

Contact Hours: 5 per week

■ LSB528 MICROBIAL PHYSIOLOGY & METABOLISM

The composition, organisation, structure and activity of the microbial cell: bacteria, yeasts and moulds. Topics include: light microscopy and staining methods; cell structure; enrichment, isolation and growth of cultures; the kinetics of growth; biosynthesis of cellular

materials; regulation of metabolism; microbial genetics; sporogenesis and germination.

Course: SC30

Prerequisite: LSB428

Credit Points: 12

Contact Hours: 5 per week

■ LSB530 IMMUNOLOGY 5

Builds on the basic understanding provided in LSB430 to provide an understanding of the genetic control of antibody diversity, the function of antibody and complement at a molecular level, cell interactions in the immune response and immunological process in resistance to and recovery from infection. Practical classes place emphasis on the competent performance of immunological procedures rather than just a demonstration of immunological principles.

Course: LS36

Prerequisites: LSB430, LSB408, LSB400

Credit Points: 8

Contact Hours: 4 per week

■ LSB532 POPULATION GENETICS

An extension of Introductory Genetics. Topics include: the genetic structure of populations and processes of evolutionary change; natural selection, inbreeding and co-adaptation; species and speciation theory; ecological genetics and the genetics of behaviour. Students may be required to undertake semester-long project topics on practical or theoretical problems.

Course: SC30

Prerequisite: LSB432

Credit Points: 12

Contact Hours: 3 per week

■ LSB537 GENETIC ENGINEERING

The development of concepts and skills in the recombinant DNA technologies used in genetic engineering. Topics include: the enzymes, vectors and host cells for gene isolation and cloning; strategies and procedures for cellular transformation and gene library construction; nucleic acid hybridisation techniques; methods for the screening for recombinant clones using radioactive and non-radioactively-labelled gene probes.

Courses: LS70, LS85, SC30, SC60

Prerequisite: LSB468

Credit Points: 12

Contact Hours: 5 per week

■ LSB542 PLANT TISSUE CULTURE 2

Cellular and biochemical aspects of plant growth are integrated with standard plant tissue culture practice in this unit. Theories and techniques of modern plant biotechnology are introduced, including cytogenetics, protoplast isolation, and the unusual carbohydrate metabolism of plants in tissue culture.

Course: SC30

Prerequisite: LSB442

Credit Points: 12

Contact Hours: 5 per week

■ LSB548 BIOCHEMICAL SEPARATIONS

An advanced course of lectures and a comprehensive project designed to integrate a number of specialist biochemical procedures including centrifugation, chromatography, electrophoresis and spectro-photometry. Students are required to design and execute an experimental protocol for the separation of selected macromolecules.

Course: SC30

Prerequisite: LSB318

Co-requisite: LSB508

Credit Points: 12

Contact Hours: 5 per week

■ LSB550 HAEMATOLOGY 5

The first of two units in which the student is introduced to the diseases of the blood: cause, laboratory investigation, prognosis, principles of treatment and laboratory monitoring of treatment. The blood disorders discussed include: anaemias of defective haem and porphyrin synthesis, anaemias caused by abnormalities in globin biosynthesis, macrocytic anaemias,

hypoproliferative anaemias, anaemia of chronic renal failure, liver disease, haemolytic anaemias.

Course: LS36

Prerequisites: LSB310, LSB408, LSB450

Credit Points: 8

Contact Hours: 4 per week

■ LSB552 AQUACULTURE 1

Methods and techniques associated with the commercial production of aquatic animal species in hatcheries and on aquafarms. Topics include: water quality measurement and management; intensive production of food organisms; induction of maturation and spawning; nursing and rearing larvae and fry; feeding; diagnosis and treatment of health problems; handling and husbandry.

Course: SC30

Prerequisite: LSB302

Credit Points: 12

Contact Hours: 5 per week

■ LSB558 APPLIED PHYSIOLOGY

An extension of prior knowledge of physiological processes which occur in a specific range of cardiovascular, renal, and neurological functions; basic nutritional concepts and factors affecting nutrient requirements.

Courses: PU62, SC30, SC60

Prerequisite: LSB458

Credit Points: 12

Contact Hours: 5 per week

■ LSB560 HISTOPATHOLOGY 5

A detailed study of techniques used in routine histopathology including methods for immunohistochemistry and transmission electron microscopy. Emphasis is placed on the application and relevance of methods to particular diagnostic areas.

Course: LS36

Prerequisites: LSB408, LSB460

Credit Points: 8

Contact Hours: 4 per week

■ LSB568 ELECTRON MICROSCOPY

A theoretical and practical background to the operation and use of scanning and transmission electron microscopes in biological, materials and forensic science; basic principles of specimen preparation are included with emphasis on methods complementary to biology, microbiology and molecular biology. Analytical capabilities of electron beam instruments.

Courses: ED50, SC30

Credit Points: 12

Contact Hours: 5 per week

■ LSB578 VIROLOGY

Lectures and practical classes designed to introduce students to the basic concepts of virology. A range of viruses and virus diseases are examined and topics include: virus morphology and composition, taxonomy and classification, replication, purification, diagnosis and assay, transmission and control.

Course: SC30

Prerequisite: LSB428

Credit Points: 12

Contact Hours: 5 per week

■ LSB582 SELECTED TOPICS 1

Students complete a study on a specific topic. Such study involves selected reference material and may also include a lecture program or project work.

Course: SC30

Prerequisite: LSB362

Credit Points: 12

Contact Hours: 5 per week

■ LSB592 FIELD STUDIES 2

A field-based unit in which students use the background information gained in LSB352 to sample aquatic populations; may include extended field trips.

Course: SC30

Prerequisite: LSB352

Credit Points: 12

Contact Hours: 5 per week

■ LSB600 CLINICAL BACTERIOLOGY 6

A study of clinical bacteriology, dealing with the characteristics, isolation and identification of bacteria implicated in human disease, the collection and examination of clinical specimens, the initial use of computerised data bases in bacterial identification and

antibiotic sensitivity tests on laboratory isolates, the interpretation and clear reporting of results.

Course: LS36

Prerequisite: LSB400

Credit Points: 16 Contact Hours: 7 per week

■ LSB602 PROJECTS 2

This elective unit may be undertaken by students who have taken LSB984 and who have the strand coordinator's permission to continue project work. The student either: continues a project undertaken in LSB502, or involves one or more additional projects aimed at developing to a greater depth aspects of the unit matter of experimental units previously completed, such projects being established for either individuals or groups. Assessment is conducted as for LSB502. There are a number of excursions.

Course: SC30

Credit Points: 12 Contact Hours: 5 per week

■ LSB607 BIOCHEMICAL SEPARATIONS

An advanced course of lectures and a comprehensive project designed to integrate a number of specialist biochemical procedures including centrifugation, liquid chromatography, electrophoresis, spectrophotometry and peptide mapping. Students participate in group projects where they are required to design and execute their own experimental protocols for the purification and analysis of selected proteins.

Course: LS70 Prerequisites: LSB308; LSB318

Credit Points: 12 Contact Hours: 5 per week

■ LSB608 BIOCHEMISTRY 6

Advanced studies in protein biochemistry, including structure, analysis and evolution of proteins, sequencing, synthesis, structure predictions; applications in the areas of enzymology and active site chemistry; macromolecular assemblies such as muscle.

Course: SC30 Prerequisites: LSB418, LSB308

Credit Points: 12 Contact Hours: 5 per week

■ LSB612 AQUACULTURE 2

The theoretical and applied aspects of warm-water aquaculture. Topics include: design and operation of production facilities; water quality requirements and management; biology of commercially important species; reproduction and its control; nutrition, feeding and growth; diseases and their control; production improvement; polyculture; case studies.

Course: SC30

Prerequisite: LSB372

Credit Points: 12 Contact Hours: 5 per week

■ LSB617 PLANT TISSUE CULTURE 2

Cellular and biochemical aspects of plant growth are integrated with standard plant tissue culture practice in this unit. Theories and techniques of modern plant biotechnology are introduced, including cytogenetics, protoplast isolation, and the unusual carbohydrate metabolism of plants in tissue culture.

Course: LS70

Prerequisite: LSB517

Credit Points: 12 Contact Hours: 5 per week

■ LSB618 ANALYTICAL BIOCHEMISTRY 6

A companion to unit LSB608 extending the material of LSB418 into biochemical analysis: enzyme-based analyses, advanced analysis using isotopes, immunoassays and the major biomolecules.

Course: SC30

Prerequisite: LSB418

Co-requisite: LSB608

Credit Points: 12 Contact Hours: 5 per week

■ LSB620 CLINICAL BIOCHEMISTRY 6

Study of clinical biochemistry with emphasis on enzymes, electrolytes, blood gases, drugs, vitamins, functions of the thyroid and adrenal gland, auto-analyses, quality control and steroid metabolism.

Courses: LS36, SC30

Credit Points: 8

Prerequisite: LSB520

Contact Hours: 4 per week

■ LSB622 CASE STUDIES

Application of skills and techniques to a current research problem in biology. Skills in problem appraisal, experimental design and data handling and processing are developed, with field work.

Course: SC30

Prerequisite: LSB412

Credit Points: 12 Contact Hours: 5 per week

■ LSB628 APPLIED MICROBIOLOGY

Aspects of the microbiology of foods, water and agriculture. Topics include: sampling plans, food-borne infections, food hygiene, food standards and the law, food ecology and its relationship to food spoilage and preservation, industrial fermentations, NATA requirements for laboratory registration and methods of microbiological examination of foods, plant, soil, and water microbiology.

Course: SC30

Prerequisite: LSB428

Credit Points: 12 Contact Hours: 5 per week

■ LSB630 IMMUNOHAEMATOLOGY 6

Designed to supply the competence in theoretical and practical blood transfusion required of a scientist working in a hospital blood bank. The understanding of immunology gained in LSB430 and LSB530 is applied to the area of blood banking. Topics include: blood group systems, compatibility testing, antibody identification, antenatal serology, clinical use of blood and blood products and quality control.

Course: LS36

Prerequisite: LSB530

Credit Points: 8 Contact Hours: 4 per week

■ LSB632 PLANT PHYSIOLOGY 2

The sequence of biochemical and physiological events during the life history of a plant. Topics include: starch and oil mobilisation during seed germination, biosynthesis of cell membranes, cell pigments (carotenoids, chlorophylls), and plant cell walls; photosynthetic assimilation of nitrogen and sulphur (overview of biosynthesis of all amino acids); biosynthesis of so-called secondary plant products, eg. terpenoids, flavonoids, and the lignin component of wood; biosynthesis of starch and oils in new seeds. Laboratory classes emphasise techniques of value to plant biochemical research.

Course: SC30

Credit Points: 12 Contact Hours: 5 per week

■ LSB637 MOLECULAR GENETICS

Polymerase Chain Reaction and associated technologies; chromosome separation; walking and jumping; genetic recombination, mutagenesis and evolution; advanced techniques including DNA foot-printing; nucleic acid sequencing and reverse genetics.

Courses: LS70, LS80, LS85, SC30

Prerequisite: LSB537

Credit Points: 12 Contact Hours: 5 per week

■ LSB648 MICROBIAL TECHNOLOGY

An advanced course of lectures and practical sessions dealing with the industrial use of microorganisms. Topics include: screening and strain development; large scale fermentation; product recovery; biochemical engineering; microbial fermentation of food products; primary and secondary metabolites of industrial importance; single cell protein; microbial transformations; biodeterioration and bioleaching.

Course: SC30

Prerequisite: LSB528

Credit Points: 12 Contact Hours: 5 per week

■ LSB650 HAEMATOLOGY 6

Continues the study of blood diseases. Topics include:

inherited and acquired coagulation factor disorders, fibrinolysis, thrombosis, anticoagulant therapy platelet disorders, cellular kinetics, growth factors, non malignant and malignant leucocyte disorders, paediatric and veterinary haematology.

Course: LS36 Prerequisite: LSB550
Credit Points: 8 Contact Hours: 4 per week

■ LSB652 BIOLOGICAL RESOURCES

Aspects of ecosystem management related to naturally occurring materials and their supply to the human economy. Limitations on specific exploitation of natural genetic (species), soil, and energy resources are identified and linked with relevant aspects of land tenure, administration and law; threats to biological resources due to pollutants. Strategies leading to sustained yield and conservation are contrasted with those resulting in resource degradation.

Course: SC30
Credit Points: 12 Contact Hours: 5 per week

■ LSB658 CLINICAL PHYSIOLOGY

The physiological basis and pathogenesis; clinical features and treatment of the major disorders of the cardiovascular, respiratory, haematological, renal, gastrointestinal, nervous and endocrine systems.

Course: SC30 Prerequisites: LSB358, LSB458
Credit Points: 12 Contact Hours: 5 per week

■ LSB660 HISTOPATHOLOGY 6

Reviews recent advances in diagnostic histopathology and introduces advanced and specialised methods including scanning electron microscopy and X-ray microanalysis. Techniques for diagnostic cytology concentrating on specimen preparation and the microscopic detection of cancerous and other abnormal cells in human tissues and body fluids.

Course: LS36 Prerequisite: LSB560
Credit Points: 8 Contact Hours: 4 per week

■ LSB682 SELECTED TOPICS 2

A final semester unit providing students with an opportunity to complete a detailed study on a specific topic. The study normally is based on project work and may include a lecture program.

Course: SC30
Credit Points: 12 Contact Hours: 5 per week

■ LSB722 RESEARCH STRATEGIES

A series of seminars presented by staff of the Faculties of Health and Science and other research scientists on their area of expertise. A series of tutorials and lectures on such topics as library searches, oral communications, written communications and ethics. A written assignment in the areas of microbiology, biochemistry and biotechnology. A seminar presented by the student covering the background literature relevant to the student's research project.

Course: SC60 Credit Points: 16

■ LSB723 READINGS IN LIFE SCIENCE 1

The preparation of a literature review of direct and associated relevance to the Honours research project under the guidance of the supervisor(s). Includes an in-depth computer search, the presentation of a written paper demonstrating a considerable knowledge, understanding and appreciation of the literature as well as a critical appraisal of future research requirements.

Course: SC60 Credit Points: 16

■ LSB725 PROJECT

All students undertaking honours in biotechnology, biochemistry or microbiology are required to select and undertake, in consultation with a supervisor, a suitable project.

Course: SC60 Credit Points: 10

■ LSB734 ANALYTICAL ELECTRON MICROSCOPY

An advanced course in electron microscopy with emphasis on the applications of labelling and analytical techniques. Methods covered include immunocytochemistry, in situ hybridisation, energy and wavelength dispersive X-ray analysis, electron energy loss spectroscopy and image analysis. Specialised preparation methods necessary for use of these techniques in SEM, TEM and STEM instruments are discussed, together with their advantages and limitations. Applications are drawn from the biological, materials and forensic science areas.

Course: SC60
Credit Points: 12 Contact Hours: 5 per week

■ LSB801 ADVANCED PLANT PHYSIOLOGY & BIOCHEMISTRY

Plant physiology and biochemistry of current research interest are covered, expanding upon material in the third year Plant Biochemistry unit. Students select from a reading list and present seminars.

Course: LS60
Credit Points: 12 Contact Hours: 5 per week

■ LSB802 IMMUNOLOGY 5

This unit builds on the basic understanding provided in LSB430/438 and provides an understanding of the genetic control of antibody diversity, the function of antibody and complement at a molecular level, cell interactions in the immune response and immunological process in resistance and recovery from infection. Students are also required to demonstrate basic information retrieval skills in areas of immunology and to perform a range of computer based immunology tasks.

Courses: SC60, LS70
Prerequisites: LSB430, LSB438
Credit Points: 12 Contact Hours: 5 per week

■ LSB804 ADVANCED POPULATION BIOLOGY

An extended treatment of major questions in population biology. Students are expected to develop a detailed understanding of population processes and aspects of evolutionary theory at both the individual and population level. The unit includes theoretical core material, group tutorials and individual programs designed around student needs. Students are required to present a review paper and a formal seminar on an assigned topic.

Course: SC60
Credit Points: 12 Contact Hours: 5 per week

■ LSB825 PROJECT

The preparation of a paper reporting the methods and results of investigations in the Honours Research Projects. The paper also includes an introduction, analysis and discussion of the project in a style and length deemed to be appropriate by the Head of School. Students should relate this project work to published work already undertaken in the field.

Course: SC60 Credit Points: 48

■ LSN009 READINGS IN LIFE SCIENCE 4

A review of literature in an area determined in consultation with the supervisor. The area can be associated with the research project topic and can be broadly or narrowly focussed but should not include any significant material covered in LSN013. The review should cover the background to the area as well as recent advances and identify deficiencies and possible future research directions. The review should be a critical analysis of the area. Reviews should normally be approximately 5,000 words.

Courses: IF49, SC80
Credit Points: 12 Contact Hours: 1 per week

■ LSN010 READINGS IN LIFE SCIENCE 5

See LSN009.

Courses: IF49, SC80

Credit Points: 12 Contact Hours: 1 per week

■ LSN011 RESEARCH SEMINARS IN LIFE SCIENCE 1

A 30 minute public seminar to include a presentation and question period addressing the background to the proposed research topic in the postgraduate degree and outlining the proposed directions of the research program. The seminar should normally be presented within 12 months (full-time) or 24 months (part-time) of commencement of the postgraduate program.

Courses: IF49, SC80 Credit Points: 6

■ LSN012 RESEARCH SEMINARS IN LIFE SCIENCE 2

A 30 minute public seminar to include a presentation and current literature directly related to the research project topic. The review should identify major and minor deficiencies in the research literature and identify possible directions for future research. The review should be approximately 10,000 words and at least one draft should be presented to the supervisor prior to final submission.

Courses: IF49, SC80

Credit Points: 6 Contact Hours: 1 per week

■ LSN013 READINGS IN LIFE SCIENCE 3

A comprehensive and critical review of the background and current literature directly related to the research project topic. The review should identify major and minor deficiencies in the research literature and identify possible directions for future research. The review should be approximately 10,000 words and at least one draft should be presented to the supervisor prior to final submission.

Courses: IF49, SC80 Credit Points: 24

■ LSN023 RESEARCH SEMINARS IN LIFE SCIENCE 3

A 60 minute public seminar to include a presentation and question period outlining the results of the postgraduate research program as well as possible future research directions in this area.

Courses: IF49, SC80 Credit Points: 12

■ LSN102 CELLULAR BASIS OF DISEASE

Cell injury and stress mechanisms. Cellular communication. The responses of organelles, cells and tissues to injury and stress including: immune, inflammation, thrombosis, ageing and neoplastic responses. Transplantation and regeneration.

Course: LS70, LS80, LS85

Prerequisites: 24 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN110 MOLECULAR BASIS OF DISEASE

The aetiology, diagnosis and treatment of various diseases; study of molecular structures, biochemical reactions, integration and control of metabolism. Topics include: gene structure and function, proteins - structure and molecular dysfunction, and enzymes - properties and alterations in diseases: metabolic integration and hormone action, hormones and organ disease, disorders of carbohydrate and lipid metabolism and chemotherapy.

Course: LS70, LS80, LS85

Prerequisites: 24 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN150 ETHICS AND LIFE SCIENCE

Examination of the ethical implications of contemporary issues in medical science and the ethical implications of research strategies. Topics such as abortion, the status of embryos, patient rights, consent, transplantation, clinical decision making and authorship and acknowledgment are considered.

Course: LS70, LS80, LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN158 ULTRASONIC PATHOLOGY

Pathology as applicable to diagnostic ultrasound; basic embryology and genetics.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

■ LSN159 ADVANCED PATHOLOGY

The fundamentals of anatomy, physiology and pathology; emphasis on applied cross-sectional anatomy and integration of knowledge of pathological processes.

Course: PH80

Credit Points: 12 Contact Hours: 4 per week

■ LSN306 PATHOPHYSIOLOGY

A study of selected pathophysiological states which represent major alteration in physiological functioning, occurring in each developmental phase.

Courses: LS85, PH80

Prerequisites: 72 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN401 ADVANCES IN MEDICAL LABORATORY SCIENCE

A series of lectures to provide current and topical information across the general field of medical laboratory science. In addition, topics which have significant implications on the advancement of the profession are presented, eg. computers, laboratory automation, biotechnology, self-diagnosis. The lecture program is flexible to allow for the incorporation of visiting speakers or for the introduction of a current interest topic. In addition to formal lectures the unit offers tutorial and student seminar support.

Course: LS85

Prerequisites: 72 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN510 CLINICAL BIOCHEMISTRY 1

The use of clinical biochemistry in the diagnosis of diseases. Disorders of fluid and electrolyte balance systems, disorders of the gastrointestinal, pancreatic and hepato-biliary systems, and disorders of the cardiovascular system and hypertension are studied, concentrating on diagnosis and the interpretation of biochemical results. In addition, aspects of instrumentation and laboratory methods are reviewed.

Course: LS80, LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN511 HAEMATOLOGY 1

Haematologic diseases; their aetiology, laboratory investigation, pathogenesis, principles of treatment and laboratory monitoring. The study program includes seminars, oral presentations and assignments selected from: haemopoietic kinetics, haemolytic disease, haemostasis and the haematologic implications of systemic disease. Assessment is by formal examination, assignments and seminar participation.

Course: LS80, LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN512 HISTOPATHOLOGY 1

Recent advances and modern methods in diagnostic histopathology. Topics include: immunohistochemistry, enzyme histochemistry and transmission electron microscopy methods.

Course: LS80, LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 Contact Hours: 3 per week

■ LSN515 MICROBIOLOGY 1

Bacteriology, virology, mycology and parasitology. Topics are chosen to increase the knowledge and understanding of microorganisms associated with human infection. Recent trends and developments in diagnostic microbiology are studied. A critical approach to the assessment of laboratory practices and interpretation of data is developed.

Course: LS80, LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN517 IMMUNOLOGY 1

Information retrieval systems and scientific writing. Five essay topics are selected following discussion with students, supervisor/employer.

Course: LS80, LS85

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN518 DIAGNOSTIC CYTOLOGY 1

Review of recent advances and modern methods in diagnostic cytology. The major topics are in gynaecological cytology.

Course: LS80, LS85

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN530 DISSERTATION 1

The dissertation includes a supervised project in an approved topic area selected by the student. The project area may be novel, developmental or directed at an investigation of the introduction of a new system into the laboratory. Other areas which are considered appropriate include epidemiological analyses, laboratory safety, laboratory design or the efficacy of laboratory service. Each student submits a written project report in a style to present the data.

Course: LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN531 DISSERTATION 2

See LSN530.

Course: LS85

Prerequisites: 96 credit points in LS85

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN532 PROJECT

See LSN530.

Courses: LS85 (Full-time)

Prerequisites: 96 credit points in LS85

Credit Points: 48 **Contact Hours:** 12 per week

■ LSN533 PROJECT 1

See LSN530.

Courses: LS85 (Part-time)

Prerequisites: 96 credit points in LS85

Credit Points: 24 **Contact Hours:** 6 per week

■ LSN534 PROJECT 2

See LSN530.

Courses: LS85 (Part-time)

Prerequisites: 96 credit points in LS85

Credit Points: 24 **Contact Hours:** 6 per week

■ LSN610 CLINICAL BIOCHEMISTRY 2

Clinical biochemistry in the diagnosis of diseases. Endocrinology, disorders of the muscular and skeletal systems, disorders of special groups, nutrition and drugs, neurochemistry and neural disorders, cancer-associated biochemical abnormalities, and the seriously ill patient are studied, concentrating on diagnosis and the interpretation of results.

Course: LS80, LS85

Prerequisite: LSN510

Credit Points: 12 **Contact Hours:** 3 per week

■ LSN611 HAEMATOLOGY 2

Topics include: age-related changes to the haemopoietic system, perinatal haematology, paediatric haematology and haematology in the elderly, nutrition anaemias, non-malignant and malignant leucocyte disorders, transplantation, automation and quality control. Since outside lecturers participate in these specialist electives some interchange of topics between this unit and LSN511 may be necessary.

Course: LS80, LS85

Credit Points: 12

Prerequisite: LSN511

Contact Hours: 3 per week

■ LSN612 HISTOPATHOLOGY 2

Methods in diagnostic histopathology. The design and assessment of diagnostic programs to aid the identification of tumours and diseases of selected organ systems. Specialised techniques including aspiration cytology, scanning electron microscopy and analytical electron microscope methods.

Course: LS80, LS85

Credit Points: 12

Prerequisite: LSN512

Contact Hours: 3 per week

■ LSN615 MICROBIOLOGY 2

Areas of bacteriology, virology, mycology and parasitology. Topics are chosen to increase the knowledge and understanding of micro-organisms associated with human infection. Recent trends and developments in diagnostic microbiology are studied. A critical approach to the assessment of laboratory practices and interpretation of data is developed.

Course: LS80, LS85

Credit Points: 12

Prerequisite: LSN515

Contact Hours: 3 per week

■ LSN617 IMMUNOLOGY 2

Assist with the preparation of scientific publications and the presentation of data orally. Students are expected to prepare a short scientific paper based on raw data provided. They also prepare and present a short seminar based on the scientific paper.

Course: LS80, LS85

Credit Points: 12

Prerequisite: LSN517

Contact Hours: 3 per week

■ LSN618 DIAGNOSTIC CYTOLOGY 2

Exploration of recent advances, methods and their applications in diagnostic cytology of body sites. Topics include: respiratory and urinary tract, body fluids and techniques such as fine needle aspiration.

Course: LS80, LS85

Credit Points: 12

Prerequisite: LSN518

Contact Hours: 3 per week

■ LSN710 PROJECT**■ LSN711 PROJECT 1****■ LSN712 PROJECT 2**

A supervised project in an area selected by the student. The project area may be novel, developmental or directed at an investigation of the introduction of a new system into the laboratory. Other areas which are considered appropriate include epidemiological analyses, laboratory safety, laboratory design or the efficacy of laboratory service. Each student submits a written project report in a style to present the data.

Course: LS80

Credit Points: LSN710 = 48, LSN711 & LSN712 = 24

■ LSP127 BUSINESS ASPECTS OF BIOTECHNOLOGY

Commercial perspectives of a biotechnology company; funding for commercial research; research patents and intellectual property; GMAC/recombinant DNA guidelines and regulations; overview of Australian biotechnology companies; site visits to one or two biotechnology companies.

Course: LS70

Credit Points: 12

Contact Hours: 5 per week

■ LSP735 HUMAN MOLECULAR BIOLOGY

A course of specialist lectures and research assignments for postgraduate students relating to the organisation and regulation of expression of information stored in the human genome. Additional subject areas include the molecular basis of genetic disorders, cancer, oncogenes and infectious disease; and clinical applications of nucleic acid diagnostic procedures eg. linkage analysis, DNA profiling, genetic screening.

Courses: LS70, LS80, LS85, SC60

Prerequisite: LSB637

Credit Points: 12

Contact Hours: 5 per week

■ LSP737 PLANT & ANIMAL MOLECULAR BIOLOGY

Techniques and applications of molecular biology for the genetic manipulation of plants and animals.

Courses: LS70, SC60

Prerequisite: LSB637

Credit Points: 12

Contact Hours: 5 per week

■ LSP739 CLINICAL MOLECULAR BIOLOGY

The theory behind the use of restriction endonucleases; radioisotopes and nucleic acid hybridisation procedures and their applications in the Polymerase Chain Reaction; linkage analysis, DNA profiling and genetic screening using oligonucleotides and gene probes.

Courses: LS85, SC60

Prerequisite: LSB437

Credit Points: 12

Contact Hours: 5 per week

■ LSX110 INTRODUCTORY BIOLOGY

An introduction to the classification of organisms. Examination of the morphology, anatomy, reproduction, life-history and physiology of selected species.

Courses: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX111 MICROSCOPY TECHNIQUES

The use and roles of various types of optical microscopes; microscope accessories for counting, measuring, drawing and photography; procedures for preparing specimens for examination and histological/histochemical study.

Courses: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX121 BIOLOGICAL CHEMISTRY 1

An introduction to the basic chemistry of biological systems and the biochemistry of major groups of biologically important compounds. Topics include: solution chemistry, biochemistry of amino acids, proteins, fats and sugars; basic aspects of enzyme chemistry; nucleic acids and protein synthesis.

Courses: LS12, LS15

Credit Points: 8

Contact Hours: 4 per week

■ LSX122 LABORATORY INSTRUMENTATION 1

The principles, care and effective usage of basic laboratory equipment including glassware, plastics, balances, spectrophotometers, flame photometers, autotitrators, pH meters and specific ion meters. Programmable calculators and computers are used during the practical course to illustrate modern methods of data manipulation. Experience in the handling of chemicals and in the preparation of reagents and standards. Emphasis on laboratory safety.

Courses: LS12, LS15

Co-requisite: LSX111

Credit Points: 8

Contact Hours: 4 per week

■ LSX123 MICROBIOLOGY 1

An introduction to the biology of bacteria, fungi, algae, protozoa and viruses, with consideration of structure, nutrition, reproduction, genetics and classification systems. The practical course is aimed at

developing the manipulative skills necessary for laboratory identification of microbial forms.

Courses: LS12, LS15, SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX124 PERSPECTIVES IN MEDICINE

A general introduction to the health care area; topics include: health in the Australian society, workplace safety, the function of various types of laboratories in hospitals, country pathology services, clinical measurement and research. Related topics such as the role of various laboratory personnel and the structure of health care services are discussed.

Courses: LS12, LS15

Credit Points: 4

Contact Hours: 1 per week

■ LSX125 ANATOMY & PHYSIOLOGY 1

An integrated study of anatomy and physiology. Emphasis is placed on gaining an appreciation of the relationship between structure and function at the levels of cells and tissues, organ and organ systems. The morphology and physiology of cells and tissues; the structure and function of the skeletal, muscular, nervous and integumentary systems.

Courses: LS12, LS15

Credit Points: 8

Contact Hours: 3 per week

■ LSX210 BIOLOGY B

Extends the basic concepts presented in Introductory Biology and also includes aspects of mendelian genetics, gene expression and cell differentiation, as well as reproduction and development in selected animals and plants.

Courses: SC10, SC12

Prerequisite: LSX110

Credit Points: 8

Contact Hours: 3 per week

■ LSX211 CELL STRUCTURE & FUNCTION

A general course in cell biology including the living cell and its processes, structure and function. Photosynthesis, respiration, intermediary metabolism are emphasised.

Courses: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX212 BIOLOGICAL DATA HANDLING

Application of statistical procedures to surveys, sampling and design of experiments. Recognition of problems arising from variability in results and particularly dye type. Methods of data collection, checking, analysis and presentation. An introduction to the use of computer software packages.

Courses: SC10, SC12

Prerequisite: MAA251

Credit Points: 8

Contact Hours: 3 per week

■ LSX213 INTRODUCTORY BIOCHEMISTRY

Molecular aspects of cellular structure and organisation. Nomenclature and basic chemistry of simple biological molecules. Amino acids and proteins: fibrous and globular proteins; enzymes and their activity. Structure, function and reactions of carbohydrates and lipids and their role as structural components and metabolites. Nucleic acids in cell growth and syntheses. Cell dynamics and analytical methods.

Courses: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX221 BIOLOGICAL CHEMISTRY 2

Basic metabolism; topics include: biological catalysis; energetic of biological systems; catabolic and anabolic pathways for the metabolism of carbohydrates, lipids, amino acids and nucleic acids; metabolic control and integration.

Courses: LS12, LS15

Prerequisites: LSX121, LSX122

Credit Points: 8

Contact Hours: 4 per week

■ LSX222 LABORATORY INSTRUMENTATION 2

Lectures and practical work designed to integrate the principles and techniques of macro-molecule separation by chromatographic procedures and methods of electrophoresis, dialysis, filtration, centrifugation.

Course: LS12, LS15

Prerequisite: LSX122

Credit Points: 8

Contact Hours: 4 per week

■ LSX223 MICROBIOLOGY 2

Microbial populations and methods of controlling growth; sterilisation and disinfection methods; enzymic activity of microorganisms; the identification of the micro-organisms relevant to public health; host/parasite relationships and immunity.

Course: LS12, LS15, SC10, SC12

Prerequisite: LSX123

Credit Points: 8

Contact Hours: 3 per week

■ LSX224 PATHOLOGY

The application of scientific methods to the study of the general principles of disease processes and selected disease of the organ systems. Correct understanding and use of pathological terms and concepts.

Course: LS12, LS15

Credit Points: 8

Contact Hours: 2 per week

■ LSX225 ANATOMY & PHYSIOLOGY 2

Continuation of LSX125; structure and function of organs and systems; the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive and endocrine systems.

Course: LS12

Prerequisite: LSX125

Co-requisite: LSX222

Credit Points: 8

Contact Hours: 3 per week

■ LSX310 INTRODUCTION TO BIOCULTURE

Techniques of algal culture and plant tissue culture. Topics include: nutrition, continuous production techniques, and the use of growth regulators to control growth. The role of environmental factors in controlling growth also is discussed. Provides the theoretical basis for students undertaking electives in aquaculture techniques and/or plant tissue culture.

Course: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX311 COMPUTER APPLICATIONS IN BIOLOGY

Microcomputers and applications-software such as wordprocessing, databases, spreadsheets, and computer graphics for report presentation. This unit is not oriented towards any specific computer language.

Course: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX312 ANIMAL & PLANT TECHNIQUES

Care and maintenance of animal and plant resources, both micro- and macroscopic. Animal handling, maintenance of glasshouse resources, culture collections and sterile techniques, preparation of specimens for permanent collections and their maintenance.

Course: SC10, SC12

Credit Points: 12

Contact Hours: 4 per week

■ LSX313 TAXONOMY

Investigation and identification of local flora and fauna; use and construction of keys. The concepts of systematics, classification, taxonomy and nomenclatural procedure. Short lectures and tutorials associated with the practical exercises.

Course: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX315 PLANT PHYSIOLOGY

An introduction to the important aspects of whole-plant physiology, including nutrition, water relations, photosynthesis, translocation and stress physiology.

Course: SC10

Prerequisite: LSX110

Credit Points: 8

Contact Hours: 3 per week

■ LSX316 HYDROBIOLOGICAL TECHNIQUES

An introduction to the characteristics of aquatic ecosystems. Students gain practical experience using methods, equipment and instrumentation to: estimate population abundance, distribution, biomass and productivity; determine community structure and diversity; determine physical characteristics and morphology and assess water quality. Compulsory field studies form a significant part of this unit.

Course: SC10, SC12

Credit Points: 8

Contact Hours: 3 per week

■ LSX320 CLINICAL BIOCHEMICAL TECHNIQUES 3

A study of the basic chemical procedures used in biochemical laboratories with emphasis on technique and accuracy. Topics include: tests of renal, pancreatic and hepatic functions; the estimation of serum proteins, lipids and carbohydrates.

Courses: LS12, LS15, SC10

Prerequisites: LSX221, LSX222, LSX225

Credit Points: 8

Contact Hours: 4 per week

■ LSX321 CLINICAL MICROBIOLOGICAL TECHNIQUES 3

The techniques used in isolation and identification of bacteria important in human and animal infections; the use of computerised data bases to assist in bacterial identification; tests for the sensitivity of bacteria to antibiotics; preparation, sterilisation, quality control and use of bacteriological media.

Course: LS12, LS15

Prerequisite: LSX223

Credit Points: 8

Contact Hours: 4 per week

■ LSX322 HAEMATOLOGICAL TECHNIQUES 3

Lectures and practical work in haematological techniques. Topics include: the counting of blood cells; the preparation, staining and examination of blood films; the determination of the red cell indices; supravital staining techniques erythrocyte sedimentation rate and origin and maturation of blood cells.

Course: LS12, LS15

Prerequisites: LSX122, LSX221, LSX225

Credit Points: 8

Contact Hours: 4 per week

■ LSX323 HISTOLOGICAL TECHNIQUES 3

Preparing tissue samples for examination by the various forms of light microscopy. Topics include: fixation, tissue processing, microtomy and an introduction to staining and light microscope techniques.

Course: LS12, LS15

Prerequisites: LSX122, LSX221, LSX225

Credit Points: 8

Contact Hours: 4 per week

■ LSX324 IMMUNOLOGICAL TECHNIQUES 3

Introduction to immunology with particular emphasis on the principle and performance of immunological techniques including blood grouping. Topics include: antigens, antibodies and the immune system.

Course: LS12, LS15 Prerequisites: LSX125, LSX225

Credit Points: 8

Contact Hours: 4 per week

■ LSX325 CYTOLOGICAL TECHNIQUES 3

Lectures and associated practical sessions in cytological methods and normal gynaecological cytology.

Basis for clinical cytology offered in LSX425.

Course: LS12, LS15 **Prerequisites:** LSX221, LSX225
Credit Points: 8 **Contact Hours:** 4 per week

■ LSX331 FOUNDATIONS OF ANAESTHETIC TECHNIQUES

Introduction to the ethical, moral and legal responsibilities of anaesthetic technicians; the standard equipment used in the operating rooms.

Course: LS12, LS15

Credit Points: 12 **Contact Hours:** 5 per week

■ LSX332 PHYSIOLOGY & PHARMACOLOGY

A study of the anatomy and physiology of the main systems, with emphasis on the major pathological disturbances. Also an introduction to the pharmacology of drugs used in anaesthesia.

Course: LS12, LS15

Credit Points: 12 **Contact Hours:** 5 per week

■ LSX333 ELECTRONICS & COMPUTING

An understanding of the basic principles of electronics, enabling an understanding of the complex equipment used for the dispensing of anaesthesia; the basic hardware and software of computers; word processing, databases and spreadsheet.

Course: LS12, LS15

Credit Points: 12 **Contact Hours:** 5 per week

■ LSX334 OPERATING ROOM EQUIPMENT

Introduction to the ancillary equipment used in operating rooms; the methods in use in the operating rooms; team roles in the operating room.

Course: LS12, LS15

Credit Points: 12 **Contact Hours:** 5 per week

■ LSX410 ENVIRONMENTAL BIOLOGY

Ecosystems and energy flow. Productivity, decomposition and nutrient cycling. Niche, species packing, diversity, colonisation and community structure. Short compulsory field trips.

Course: SC10, SC12

Credit Points: 8 **Contact Hours:** 3 per week

■ LSX411 POPULATION BIOLOGY

Population biology: structure and dynamics, evolution and differentiation; the relationships between the genetics, energetics and dynamics of populations leading to particular life-history strategies. Field excursions are compulsory.

Course: SC10, SC12

Credit Points: 8 **Contact Hours:** 3 per week

■ LSX412 FIELD TECHNIQUES

Activities include surveying, soil and climatic measurements, assessment and sampling of animal and plant populations, evaluation of spatial changes in plant and animal communities in relation to environmental gradients. Skills are gained not only in sampling and analytical techniques, but also in the establishment and running of a field camp. An extended field excursion is a compulsory part of the unit.

Course: SC10, SC12

Credit Points: 8 **Contact Hours:** 3 per week

■ LSX413 APPLICATIONS IN ELECTRON MICROSCOPY

The roles played by various forms of electron microscopy in the biological sciences and an introduction to the basic techniques and their limitations.

Course: SC10, SC12 **Prerequisites:** LSX110, LSX111

Credit Points: 8 **Contact Hours:** 3 per week

■ LSX414 ANIMAL PHYSIOLOGY

The general physiological processes which sustain life; animal-environment interactions.

Course: SC10

Credit Points: 8 **Contact Hours:** 3 per week

■ LSX415 PLANT CELL & TISSUE CULTURE

Topics include: techniques, equipment and media used in plant tissue culture, the role of plant growth regulators, and micropropagation. The significance of organogenesis, somatic embryogenesis and genetic variability in plant tissue culture are discussed. Appropriate laboratory exercises.

Course: SC10

Credit Points: 8 **Prerequisites:** LSX315 **Contact Hours:** 3 per week

■ LSX420 CLINICAL BIOCHEMICAL TECHNIQUES 4

A study of more complex techniques used in clinical biochemical laboratories, including enzyme assays, estimations of electrolytes, blood gases, drugs, vitamins and hormones. Auto-analytical techniques and quality control are also treated.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX320 **Contact Hours:** 4 per week

■ LSX421 CLINICAL MICROBIOLOGICAL TECHNIQUES 4

Basic microbiological techniques in the following disciplines: virology, mycology and parasitology (enteric parasites). The practical periods are used to reinforce the theoretical aspects of the unit.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX223 **Contact Hours:** 4 per week

■ LSX422 HAEMATOLOGICAL TECHNIQUES 4

An extension of LSX322. The student is introduced to the common blood disorders. A brief outline of their aetiology and laboratory investigation is given. The main emphasis is the use of basic haematological techniques and some specialised laboratory procedures used in the investigation of commonly encountered blood diseases. The basic theory of haemostasis and the screening tests used in the investigation of the bleeding disorders are discussed.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX322 **Contact Hours:** 4 per week

■ LSX423 HISTOLOGICAL TECHNIQUES 4

Specialised methods for identifying tissue components. Topics include: electron microscopy, histochemistry, immunohistochemistry. Emphasis is placed on the practical application of these methods in histopathology.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX323 **Contact Hours:** 4 per week

■ LSX424 TRANSFUSION TECHNIQUES 4

The basic knowledge of immunology gained in LSX324 applied to the study of human blood group systems. Topics include: principles of immunohaematology, ABO blood group, Rh blood group system, compatibility testing, antibody identification, transfusion reactions, antenatal testing, quality control, intravenous fluids, blood products.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX324 **Contact Hours:** 4 per week

■ LSX425 CYTOLOGICAL TECHNIQUES 4

Specialised preparative methods for non-gynaecological cytology and demonstrating the evaluation of specimens commonly encountered in routine diagnostic cytology.

Course: LS12, LS15

Credit Points: 8 **Prerequisite:** LSX325 **Contact Hours:** 4 per week

■ LSX431 CARDIAC CARE & RESUSCITATION

In the operating room and intensive care units, the cardiac status of patients is monitored by several devices. Students are introduced to these devices as well as to the resuscitation equipment and special equipment used in lung and cardiac surgery.

Course: LS12, LS15 **Prerequisite:** LSX332
Credit Points: 12 **Contact Hours:** 5 per week

■ LSX432 CARE OF RESPIRATORY AIRWAYS & INTENSIVE CARE

The care and maintenance of equipment used for the respiratory airways and in intensive care; acid-base balance, blood gases, and the equipment needed for the monitoring of those parameters.

Course: LS12, LS15 **Prerequisite:** LSX332
Credit Points: 12 **Contact Hours:** 5 per week

■ LSX433 ANAESTHESIA FOR SPECIALISED SURGERY

Surgical interventions requiring anaesthesia; the techniques used and their effects on the vital parameters of patients in these special circumstances.

Course: LS12, LS15 **Prerequisite:** LSX332
Credit Points: 12 **Contact Hours:** 5 per week

■ LSX434 PROFESSIONAL PRACTICE

The practical skills needed for the proper delivery of anaesthetics. This is essentially a practical unit, which can only be taken towards the end of the course. The aim is for students to become proficient and confident in assisting with the delivery of anaesthesia.

Course: LS12, LS15 **Prerequisite:** LSX334
Co-requisites: LSX431, LSX432, LSX433
Credit Points: 12 **Contact Hours:** 5 per week

■ LWB130 INTRODUCTION TO STUDY IN LAW

This unit provides an intensive introductory framework for the study of law at QUT. It outlines fundamental aspects of law and the legal system. It also provides an introduction to the learning environment at QUT including different learning styles, the objectives and structure of the course, the skills and knowledge required and the learning environment in which they are acquired; an orientation or guidance map at the point of entry to the LLB learning environment.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

■ LWB131 LAW IN CONTEXT

The varied contexts of law; some of the sources and traditional doctrinal approaches supplemented by contextual material describing other ways of seeing law from a number of perspectives including ideological, historical, political, social, economic and comparative.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB101

■ LWB132 CONTRACTS

Contract law: definition of the Law of Contract, outline of remedies; formation of contracts; equitable estoppel; express and implied terms; factors vitiating contracts; capacity to contract; privity of contract; discharge of contract; breach of contract.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX32, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB102

■ LWB133 TORTS

At its most general level this branch of the law is

concerned with the question of compensation to be given by a person causing a loss to a person suffering a loss. Areas of everyday conflict which may be resolved by principles of tort liability include damage sustained as a result of a motor-vehicle collision, and injury to a person's reputation from publication of defamatory material. The rules are examined to ascertain whether they satisfy the critical test: functional adequacy in terms of contemporary values.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX32, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB103

■ LWB134 RESEARCH & LEGAL REASONING

Legal reasoning involves the application of rules or standards of law to the resolution of legal problems, which typically arise in disputes, or potential disputes, between parties. Topics include: how to find the existing rules or standards of law and apply them to the solution of straightforward legal problems; and how to try to anticipate the way in which courts will decide the more complex or controversial matters.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB104

■ LWB135 LEGISLATION

Legislation (Acts of Parliament and delegated legislation) is the source of a very high and increasing proportion of law within the Australian system. An ability to understand the legislative process and the ability to read and interpret legislation provide some of the essential building blocks and background to the study and practice of statute based areas of the law. Such areas constitute the majority of later year units.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB101

■ LWB231 INTRODUCTION TO PUBLIC LAW

The basic institutions of government – the executive, the Parliament and the judiciary; the general principles to which legislative power is subject, and the principles by which executive decision-making is kept open and accountable.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB203 and LWB311

■ LWB232 CRIMINAL LAW AND PROCEDURE

The criminal law in force in Queensland; criminal responsibility; parties to offences; major indictable offences. The wider context of the operation of the criminal law; penal principles and the justifications for imposing punishment by the State; aspects of the disposition of offenders in the sentencing part of a criminal trial; imprisonment and release procedures.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB202

■ LWB233 PROPERTY I

The general principles of property law; the nature of property, ownership and title and the differences between various types of property; Aboriginal native title and the rules relating to real property.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB201

■ LWB234 EQUITY AND TRUSTS

The major principles of equity including: fiduciaries, unconscionable dealings and the principal equitable remedies; trusts and trusteeship.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Credit Points: 24 **Contact Hours:** 3 per week
Incompatible with: LWB301

■ LWB235 AUSTRALIAN FEDERAL CONSTITUTIONAL LAW

The constitutional arrangements effected by the Commonwealth Constitution; the structure and institutions of the constitution; the division of power between commonwealth and states; and relations between the different levels of government; emphasis to Commonwealth legislative powers, executive and judicial powers.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Prerequisite: LWB231

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB203

■ LWB302 FAMILY LAW

The manner in which the law treats the special social relationships which exist among members of a family and transforms them into legal rights and duties. The family as a legal phenomenon; annulment of marriages; dissolution of marriages; consequences of separation and divorce, such as maintenance, adjustment of interests in property and custody.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB306 LOCAL GOVERNMENT AND PLANNING LAW

The sources of legal authority for the Government of cities, towns and shires, with particular reference to the City of Brisbane: laws relating to town planning and subdivision, including the principles applicable to the rezoning of land; uses of land; control of developments by local authorities; rights to object to development; control exercised over subdivision of land by local authority; rights of appeal from local authority decisions; structure, purpose and procedure of the Planning and Environment Court; other legislation related to the town planning process, such as heritage legislation and contaminated land legislation.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB307 INSOLVENCY LAW

The insolvency of individuals and the Bankruptcy Act 1966 (Cth); winding up of companies, provisional schemes of arrangement and official management as procedures other than winding up which may be open to an insolvent company; law relating to receivership and agents of and mortgages in possession; relevant provisions of the Corporations Law.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB132 & LWB234

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB308 INDUSTRIAL LAW

Rights and duties of employers and employees under the law of employment, breach of these duties, and the remedies of both parties; entitlement to workers com-

pensation and the benefits available; the law governing the operation of trade unions and the rights of members; settlement of industrial disputes in the Commonwealth and State spheres by conciliation and arbitration.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB309 SUCCESSION

Intestate and testate succession; definitions; joint and mutual wills; formal requirements for execution of valid will; alteration, revocation and revival of wills; administration of assets: duties, powers, rights and liabilities of personal representatives; family maintenance provisions: power of court to vary a will.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB312 LAND CONTRACTS

The principles involved in the construction of contracts for the sale of land, with special emphasis on the current standard REIQ Contract in use in Queensland. Statutory requirements as they affect such contracts, including those relating to building units and group titles conveyancing.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB132, LWB233, LWB234

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB313 DISCRIMINATION/EQUAL OPPORTUNITY LAW

An examination of the law and policy with respect to discrimination and equal opportunity in Australia; relevant international treaties and Australian legislation such as the Racial Discrimination Act, Sex Discrimination Act, Human Rights and Equal Opportunity Commission Act and Privacy Act; the Human Rights Commission and state bodies.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB315 JESSUP INTERNATIONAL LAW MOOT

The Philip C. Jessup International Law Moot, run under the auspices of the American Society of International Law, is the premier mooting competition in any area of the law in the world attracting participants from every major jurisdiction. The competition requires the ability to research, analyse, apply and communicate (both orally and in written form) legal argument with respect to a complicated problem in Public International Law. Members of the QUT team will participate in the joint preparation of two memorials (one for the applicant and one for the respondent) satisfying the requirements of the Official Rules of the competition, with respect to the contents of and issues raised by the problem for the given year. Some or all of the team members will then present oral arguments in the Australian rounds of the Jessup Moot competition, and at the international rounds in the United States if the team wins the Australian round.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB331 ADMINISTRATIVE LAW

The law relating to the control of government officials and public authorities; especially where the exercise of power affects the rights and interests of individuals.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Prerequisite: LWB231

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB311

■ LWB332 PROPERTY 2

Fundamental concepts of personal property law; the concept of negotiability; transfers of personal property; protection of personal property interests; agency; bailment.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Prerequisite: LWB233 **Co-requisite:** LWB233

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB303

■ LWB333 THEORIES OF LAW

The legal theories of the twentieth century; historical contexts; underlying values and assumptions; economic, political and social objectives; the practical consequences of application to legal and social problems.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Prerequisite: LWB131

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB305

■ LWB334 CORPORATE LAW

The basic legal principles relating to registered companies; the principle of the veil of incorporation, internal functioning of a registered company including the memorandum and articles of association; dealings with third parties; legal rules relating to share capital, dividends and loan capital; introduction to obligations of company officers and shareholder rights.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB401

■ LWB351 ABORIGINAL AND ISLANDER LEGAL ISSUES

Customary law, issues of legal identity and statutory definition, Aboriginal Native Title (Mabo and its implications) and legislative schemes for claiming title, anti-discrimination laws, the criminal justice system, legal aid and effective communication with clients, sovereignty, self-determination and proposals for a Treaty.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB353 ADVANCED ADMINISTRATIVE LAW

Extends and builds upon an understanding of the fundamental principals of judicial review and legal control of government established in the core unit LWB311. Provides students with a broad focus on issues which impinge upon government accountability; and also with an understanding of issues which affect the rights of citizens in their relations with the government which extends beyond an ability to seek judicial and extra-judicial review.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB231, LWB311

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB354 ADVANCED CIVIL PROCEDURE

This elective unit builds on civil procedure providing advanced litigation skills focussing on interlocutory and summary procedures. Content includes case flow management, commercial causes, discovery, inspection, interrogatories, drafting, briefs and advices, default and

summary judgment, time constraints, injunctions, interlocutory applications, interim preservation orders, costs and management of litigation.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisite: LWB431

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB359 ADVANCED TAXATION LAW

An examination of the taxation of business entities (partnerships, trusts and companies) the capital gains tax ramifications for each entry. Some tax planning issues will also be canvassed.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisite: LWB364

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB361 DRAFTING

Drafting of deeds, contract conditions, leases and mortgage clauses in a plain English format. Stamp duties on instruments.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB233, LWB312, LWB462

Co-requisite: LWB312

Credit Points: 8 **Contact Hours:** 2 per week
Incompatible with: LWB414

■ LWB363 INSURANCE LAW

Risk management, in particular insurance, will play an increasingly significant role in modern commercial life. Insurance however is not limited to the commercial sphere but spans a wide variety of subject matter, including compulsory schemes such as third party motor vehicle insurance and workers compensation. From a vocational perspective the study of insurance law is important, being encountered by property, commercial and litigation lawyers. From an educational perspective, the unit offers an appreciation of how the common law has been modified by the legislature to balance the interests of the insurer and the insured.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB364 INTRODUCTION TO TAXATION LAW

The principles relating to the distinction between income and capital and the concept of deductions; introductory capital gains tax, the tax avoidance provisions and liability of tax advisers.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB403

■ LWB366 LAW OF COMMERCIAL ENTITIES

The legal principles pertaining to partnerships, joint ventures, unit trusts and commercial associations, statutory corporations. Partnerships and joint ventures: definition and existence, relationship to third parties, relationship inter-se and termination. Unit trusts: private unit trusts.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB406 FUNDAMENTALS OF PUBLIC INTERNATIONAL LAW

The legal rules which govern the activities of nations between themselves and with international organisations, such as the UN; the creation of international law: treaties, customary law, general principles of law; the

concept of international legal personality; statehood, self-determination, recognition; the effects of international law: sovereignty, international responsibility.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB407 CONFLICT OF LAWS

The body of law governing the resolution of private legal problems with a significant foreign element; jurisdiction of domestic courts to determine matters having a foreign element; enforcement of foreign judgments in the domestic jurisdiction; choice of law for the resolution of the dispute, both generally and in relation to family law, contract, tort, property and succession.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisite: LWB131

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB410 RESTRICTIVE TRADE PRACTICES

An overview of the anti-competitive practices which are prescribed by Part IV of the Trade Practice Act 1974 (Cth.). It will also deal with the remedies available for contraventions of Part IV and the possibility of obtaining authorisation and/or where appropriate notification from the Trade Practices Commission.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB412 RESEARCH & WRITING PROJECT

An arranged and supervised piece of research into some area of legal knowledge, and the writing of a paper of between 10,000 and 15,000 words on the results of the research and conclusions drawn therefrom. The paper becomes the property of the Faculty of Law and may be placed in the Law Library. A student wishing to undertake the Research and Writing Project should discuss the matter as early as possible in the semester immediately before that in which he or she proposes to undertake it. The written proposal must reach the Dean at least two clear weeks before the beginning of the teaching semester in which the project is undertaken, and the proposal is accepted or refused, and the student notified accordingly, not later than the first day of that semester.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB431 CIVIL PROCEDURE

The structures and processes of litigation conducted in the Supreme and Federal Courts; examination of jurisdiction, limitation of actions, motor vehicles insurance, client care, originating process, appearance, service, parties, joinder, pleadings, evidence, subpoena, settlement, trial, appeal costs and execution

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB404

■ LWB432 EVIDENCE

The rules and principles that relate to the presentation of facts to a court of law.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB402

■ LWB433 PROFESSIONAL RESPONSIBILITY

The ethical principles upon which the practice of all professions is based; the principles which underpin the discipline of law and the workings of the legal profession; the history, nature, organisation and operation of the legal profession.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB434 ADVANCED RESEARCH AND LEGAL REASONING

Exploration of suitable theoretical frameworks for understanding Australian legal reasoning generally, topical developments in substantive areas of law by way of illustration of the theoretical models; advanced skills of legal research and analysis.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Prerequisite: LWB134

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: LWB415

■ LWB452 ASIAN LEGAL SYSTEMS

Basic knowledge of Asian legal systems; a general overview of the region; specific countries eg. China, Japan and Malaysia; practical areas of the law are studied and comparisons drawn with Australian law.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB454 BANKING & FINANCE LAW

An introduction to the Australian banking system, including: terms of contracts between banker and customer; Clearance System; rights of recovery and liabilities of paying and collecting banks. An introduction to negotiable instruments: principle of negotiability; liability of parties to a negotiable instrument and the consequences of fraud.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF39, IF40, LW31, LW33, LW41, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB455 LEGAL CLINIC (INDIVIDUAL PLANNED EXERCISE)

Students participate in planning their own individual program in cooperation with some section of the legal profession, government or industry. Programs combine academic objectives with professional development or community service objectives.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB456 LEGAL CLINIC (ORGANISED PROGRAM)

Students are provided with the opportunity to see law in action through involving the student in the delivery of legal services to members of the community under the umbrella of the Legal Aid Office (Queensland).

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB461 PRIVATE LAW REMEDIES

Students develop an overall perspective on and deeper understanding of the subject of remedies. The unit is designed to give students a knowledge of the principles underlying the availability of various private law remedies, and to introduce students to an understanding of the circumstances which may give rise to a claim for restitution. It also develops a knowledge and understanding of the choice and range of private law

remedies and defences and the capacity to make sound judgments in electing which remedies to pursue against a background of heterogeneous fact situations.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB132, LWB133, LWB234

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB482 COMPUTERS & THE LAW

The role of computers in legal practice; the body of law that has arisen in relation to computers and computer applications.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB483 MEDICO-LEGAL ISSUES

The constitutional framework supporting the regulation of health care; the relationship between the individual and the health care provider in terms of consent to treatment and negligence; the impact of the criminal law: abortion, removal from life support systems; mental illness and fitness to plead; medical records and evidence; ownership and confidentiality of records, expert evidence; the role of the coroner; complaints against hospitals and health care workers.

Courses: IF31, IF33, IF34, IF36, IF40, LW31, LX31, LX32, IF37, IF38, LX33, LW33

Prerequisites: LWB131, LWB133

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB485 ENVIRONMENTAL LAW

An introduction to environmental law in Queensland; the sources, nature and development of environmental law in Queensland; the concepts of environmental law (eg. property, administrative control, law and policy, planning, management); access to the environment; planning to prevent environment degradation and pollution; protecting the environment; managing the environment; conservation; ecologically sustainable development; enforcement of environmental law; the role of the Commonwealth.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB486 INTELLECTUAL PROPERTY LAW

The most significant of the legislative enactments creating or protecting intellectual property in Australia, including those governing copyright, designs, patents and trade marks; application of the common law, particularly confidential information and passing off.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB487 MARITIME LAW

Carriage of goods by sea; charterparties; marine insurance; general average; salvage; collisions; admiralty jurisdiction and arrest of ships; oil pollution; registration, sale and mortgage of ships; and limitation of ship operators' liability.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, LW31, LW33, LX31, LX32, LX33

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB492 SECURITIES

The securities unit examines security interests including securities given by third parties over real and personal property. Those securities examined include Torrens title mortgages, guarantees, bills of sale over motor vehicles and other assets and possessory lien's. The consumer credit legislation and Trade Practices Act 1974 as they affect the validity and operation of securities will also be considered.

Courses: IF31, IF33, IF34, IF36, IF37, IF38, IF40, LW31, LW33, LX31, LX32, LX33

Prerequisites: LWB132, LWB233

Credit Points: 12 **Contact Hours:** 3 per week

■ LWN003 ADVANCED FAMILY LAW

A detailed examination of the law and underlying principles of selected areas of Family Law including: jurisdiction; financial aspects of marriage and divorce; children; marital and non-marital relationships. Where appropriate, comparisons with other countries are used and the impact of treaties is considered.

Courses: LW50, LW51

Credit Points: 24 **Contact Hours:** 2 per week

■ LWN008 COMMERCIAL LEASES

The principles governing standard clauses of a modern Australian commercial lease in the light of recent case law and Queensland statutory provisions affecting such interests. Topics include: negotiation of leases, subject matter of leases, construction of leases, covenants for repair, user, assignment, quiet possession, options to renew and purchase, insurance, the phenomenon of default, remedies of lessor and lessee, guarantees of leases.

Courses: LW50, LW51

Credit Points: 24 **Contact Hours:** 2 per week

■ LWS010 PUBLIC LAW

This introduction to public law provides students with an understanding of the origins and nature of the parliamentary system of law and government in Australia and the manner in which public authority is organised and exercised. It examines the functions of the central institutions of government – the Crown and Executive. The Parliament, the Judiciary and their relationship one with another. The role of state constitutions is dealt with as well as the organisation of government under the Australian Federal Constitution.

Course: IF64

Credit Points: 12 **Contact Hours:** 3 per week

■ LWN017 RESTITUTION

The law of Restitution is concerned with those cases where a plaintiff obtains a money remedy and/or recovers property from a defendant who has been unjustly enriched by the receipt of money or other benefits at the expense of the plaintiff. The theoretical basis and scope of restitutionary claims and defences to them and their relationship with those claims founded on the traditional common law obligations, torts and contract and the law of property are considered.

Courses: LW50, LW51

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN018 SELECT PROBLEMS OF TRUSTS

Aspects of express trusts including a short refresher, management of trustee investments, and consideration of a model trustee code; the nature of the constructive trust; the acquisition of property by a fiduciary and the constructive trust; the acquisition of property on death and the constructive trust; the acquisition of land under an oral agreement or trust and the constructive trust; unconscionable insistence on legal rights, unconscionable conduct and the constructive trust with particular reference to estoppel and relief against forfeiture; determining the ownership of property in disputes between unmarried partners.

Courses: LW50, LW51

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN020 NON-RESIDENT & FOREIGN SOURCE TAXATION

Questions relating to residence, source, transfer pricing and the legislation relating to Controlled Foreign

Entities; the effect of Double Tax Treaties.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN021 BANKING & FINANCE LAW 1

Topics include: Overview of the legal framework of the Australian banking and finance industry; "money" and "legal tender"; foreign exchange transactions; banker and customer and incidents of that relationship; bank accounts and dealings in relation to such accounts; bills of exchange, promissory notes and cheques; collecting bank and paying bank; the clearing system.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN022 BANKING & FINANCE LAW 2

Topics include: banking instruments including documentary and standby credits, performance bonds and bank guarantees; electronic banking; the role of bankers as financiers and specific financing methods such as bill line facilities and foreign currency loans; securities for finance including company securities; default and insolvency and its impact on bankers.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN024 SELECT PROBLEMS OF TRIBUNALS & ENQUIRIES

Investigation of problems that occur in the law relating to the activities of tribunals and enquiries; concentrates on Royal Commissions and related forms of enquiries, as well as statutory tribunals exercising quasi-judicial functions. Topics include: the power to require information; the privilege against self-incrimination; Crown privilege and duties of secrecy; do the rules of procedural fairness apply?; can an enquiry commit a contempt of court?; enquiries and the rules of parliamentary privilege; the power of the courts to review the activities of enquiries; enquiries that investigate a mixture of Federal and State matters; the laws of privacy and confidentiality. Legislative attempts to oust judicial review of inquiries and tribunals.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN025 RESEARCH PROJECT 1A

A supervised research project over one semester approved by the Postgraduate Studies Committee. Students may undertake up to 48 credit points of Research Projects only with the approval of the Director of Postgraduate Studies.

Courses: LW50, LW51

Credit Points: 12

■ LWN026 RESEARCH PROJECT 2A

A supervised research project over the whole year approved by the Postgraduate Studies Committee. Students may undertake up to 48 credit points of Research Projects only with the approval of the Director of Postgraduate Studies.

Courses: LW50, LW51

Credit Points: 24

■ LWN028 ADVANCED SECURITIES

Competing claims to fixtures on land; the nature of a charge and a mortgage; security over bank accounts; recent problems with Bills of Sale legislation; the mortgagee's power of sale; guarantees and indemnities; fixed and floating securities; some problems arising from receiverships and mortgagees in possession; securities and the Trade Practices Act; bank guarantees and unconditional performance bonds; the demise of the scintilla temporis principle; romalpa clauses; co-ownership and security interests; negative pledges; securities over future property; the nature of various security interests; and the giving of formal opinions in relation to security documentation.

Courses: LW50, LW51

Credit Points: 12

■ LWN029 THEORETICAL CRIMINOLOGY

An examination of the theories of crime and criminality. Having studied the nature, scope, and objects of criminology, students are referred to the broad sweep of criminological theory: classical and neo-classical theories; the positivist school; physical and biological factors and theories; psychological and psychiatric explanations including the notion of dangerousness; crime as a social phenomena; radical or critical criminology; law and social change; theories of punishment.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN030 DISPUTE RESOLUTION/ MEDIATION

A study of mediation looking at both the theory and practice. Students are expected to be involved in a number of class workshops to learn mediation skills; therefore an attendance rate of 80 per cent (ie 11 out of 14 classes) is necessary to gain a mark in the unit. Issues include: mediation in Australia; theories of mediators; different forms of mediation, ie. neighbourhood, family, commercial; the advantages and disadvantages of mediation; power imbalance; when mediation is not appropriate; ethical and professional issues relating to mediation.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN031 FOREIGN INVESTMENT LAW & PRACTICE

The law and policy regime for Australian foreign investment at Commonwealth and State levels; theoretical and practical aspects of foreign investment regulation; workshops and seminars covering Commonwealth and State legislation, situations commonly arising in practice, and topics related to foreign investment (eg native title, government contracts, etc).

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN032 CREDIT FOR UQ SUBJECT 1

Under the course rules, a coursework student may, with the prior approval in writing of the Deans of the Faculties of Law of QUT and of the University of Queensland, undertake any combination of whole year and one semester units offered in the LLM degree by Coursework at the University of Queensland which are equivalent to no more than 48 credit points. This unit code represents a one-semester unit taken pursuant to that course rule at the University of Queensland.

Courses: LW50, LW51

Credit Points: 12

■ LWN033 CREDIT FOR UQ SUBJECT 2

See LWN032.

Courses: LW50, LW51

Credit Points: 12

■ LWN034 CREDIT FOR UQ SUBJECT 3

Under the course rules, a coursework student may, with the prior approval in writing of the Deans of the Faculties of Law of QUT and of the University of Queensland, undertake any combination of whole year and one semester units offered in the LLM degree by Coursework at the University of Queensland which are equivalent to no more than 48 credit points. This unit code represents a full-year unit taken pursuant to that course rule at the University of Queensland.

Courses: LW50, LW51

Credit Points: 24

■ LWN035 MEDICO-LEGAL ISSUES

The Constitutional framework supporting the regulation of health care; the relationship between the individual and the health-care provider in terms of consent to treatment and negligence; the impact of the criminal law, abortion, removal from life support systems;

medical records and expert evidence; ownership and confidentiality of records; the role of the coroner; complaints against health-care workers.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN036 SELECT ISSUES IN INTELLECTUAL PROPERTY LAW

The application of intellectual property law to common commercial arrangements; develops an awareness of emerging issues in intellectual property including application to computers, performers' rights and moral rights; examines the remedies, procedures and processes in this field.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN037 STAMP DUTY & COMMERCIAL TRANSACTIONS

Whilst stamp duty remains a tax on instruments, amendments to the Stamp Act have had the result that it is essentially a transactional impost. On completion, students have a sound understanding of the scope of the Act and of the circumstances in which commercial transactions attract a liability to duty. Topics include: territorial nexus; stamp duty administration; transactions concerning companies; transactions concerning trusts; partnership transactions; planning and structuring issues; anti-avoidance provisions.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN038 CAPITAL GAINS TAX & COMMERCIAL TRANSACTIONS

The capital gains tax provisions contained in Part IIIA of the Income Tax Assessment Act have the potential to apply to innumerable acts, transactions and events. Topics in this unit include: the relationship between Part IIIA and the other taxing provisions of the Act; the general scheme of Part IIIA; the threshold conditions to the application of the Part; the calculation provisions of the Part; the function and operation of roll-over provisions; companies and capital gains tax; partnerships and capital gains tax; trust and capital gains tax; planning and structuring issues; tax avoidance and capital gains tax.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN039 APPLIED CRIMINOLOGY

Identification and exploration of key issues in criminology including the identification and measurement of crime; the social context (ecology) of crime; aboriginality and the criminal justice system; the politicisation of crime, law and order; organised crime; victimisation and victimology; crime prevention and aspects of law enforcement; theories of punishment and sentencing.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN040 THEORIES OF JUSTICE 1

This unit complements LWN042. However, both units stand alone and neither is a prerequisite for the other. It provides a comparative analytical perspective from which to consider the notion of justice and related concepts. A thematic approach is adopted to issues arising in various spheres of society to do with the environment, welfare, law, religion and women. Topics include a consideration of the following: Epistemologies of justice; Justice in the context of post-modern Western Society; the environmental paradigm of Justice; Welfare, equality and distributive justice; the law profession and judicial culture; religion; faith doing justice;

women; feminist perspectives on law and justice; comparative justice: the voice of other cultures. Includes seminars and guest lectures. Students lead one presentation.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN041 ECONOMIC ANALYSIS OF THE LAW

A consideration of the manner in which, and the extent to which, the principles and methodologies of economics can be applied in the analysis of statutes and the common law, in evaluating proposals for the reform of the law, and in explaining, justifying or criticising particular rules of law. Particular focus is placed on the analysis of various contemporary issues in the law of torts and the law of contract. A previous course in economics is recommended.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN042 THEORIES OF JUSTICE 2

This unit complements LWN040. However, both units stand alone and neither is a prerequisite for the other. The focus of this unit is on the interface between public/social policy and the Law as an instrument of social transformation, and how these phenomena are grounded in theoretical and ideological positions, as well as being reflective of particular ontogenic stages of moral reasoning. The unit provides the opportunity for students to carry out advanced research into various justice models and their implications/applications to a particular social problem within the realm of legal and public/social policy. Includes seminars and structured small group work as well as student presentations.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN043 LAW OF COMPANY TAKEOVERS

Consideration of Chapter 6 of the Corporation Law which regulates acquisition of shares which affect a change in a company's control. Both practical perspectives and conceptual analysis are emphasised.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN044 INSTITUTIONAL INVESTORS

An advanced corporate banking financial institution course. Institutional investors are financial institutions like premium funds, insurance companies, mutual funds, savings and trust departments of banks, trust companies, securities firms, all of which invest on behalf of the public. The way they make investments is governed by statute and by common law as well as by contract. Institutional investors now are investors in the global financial and capital markets. The unit entail three parts. The first part deals with a description of institutional investors in Australia, Asia, North America and Europe. The second part canvasses the common and statutory law regulating and governing institutional investors as well as contract law. The third part deals with special topics such as conflict of interest, exclusive self dealing and the investors role in corporate covenants, especially in proxy battles, mergers and take overs as well as social investments and the breach of the prudent man rule.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN045 LAW RELATING TO PUBLIC & OFFICIAL CORRUPTION

Concept of public duty; response of the general law; anti-corruption models; investigation and prosecution of official corruption from the perspective of the

Criminal Law.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN046 ADVANCED PLANNING LAW

A detailed study of town planning law with special emphasis on the following: relevant Queensland legislation and in particular the Local Government Planning & Environment Act 1990 and the impact of the 1992 amendments thereto. The implementation, structure and operation of town planning schemes, Strategic Plans and their legal effect. The role and jurisdiction of the Planning & Environment Court, its Rules of Court, rights of appeal therefrom and the power of costs. Applications for town planning consent, rezoning and subdivision of land and relevant considerations in connection therewith. The rights and obligations of objectors, objector appeals and appeals by applicants. Reasonable and relevant conditions in certain specified case areas together with an examination of relevant case law applicable thereto. Existing and nonconforming uses; other legislation impacting on town planning. Prior experience in town planning is not a prerequisite.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN047 LEGAL EDUCATION

An introduction to the main schools of thought on legal education. A review of legal education from an historical and sociopolitical perspective together with consideration of the implications on legal education of new schools of contemporary thought such as feminist legal theory and critical legal studies. An analysis of the learning process considering varying learning styles; consideration of a variety of teaching styles/techniques and the appropriateness and effectiveness of each. Consideration of matching learning styles with teaching methods and the validity and effectiveness of such an approach. Consideration for the need, role and implementation of training needs analyses and goal setting. Analysing the elements of objectives and aims and how to set them with a view to designing a teaching/training program. Consideration of the means of evaluating teaching/training effectiveness. Consideration of the legal education continuum. Consideration of the needs of adult learners.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN048 ADVANCED LEGAL RESEARCH

The concepts, techniques, aims and methods of legal research and other research relevant to an interdisciplinary perspective. Extensive training in finding source material, including the use of advanced technology in locating and organising source materials. The unit also deals at length with the presentation and defence of research including the respective roles of researcher and supervisor, structuring research material in support of a thesis, the diagnosis and remedy of structural problems. It also deals with the conventions of presentation, 'assessment' of research in terms of the differing criteria for refereeing and judging 'worth' and quality and ethics of research. Different research objectives will be considered for attention, for example research in government or for law reform.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN049 INTERNATIONAL ENVIRONMENTAL LAW

The development of international environmental law; State responsibility for environmental protection; protection of the marine environment from pollution; protection of the atmosphere; protection of wildlife and

habitats; hazardous wastes and toxic chemicals; conservation of the world heritage; international trade and the environment; international dispute resolution; enforceability of international legal regimes.

Courses: IF64, LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN050 RESTRICTIVE TRADE PRACTICES LAW

An analysis of those sections of the Trade Practices Act dealing with horizontal and vertical restraints of competition, misuse of market power, price discrimination and mergers. These substantive prohibitions are intended to regulate workable competition in markets. The early part of the course focuses on basic concepts such as markets, competition, market power and the structure, conduct, performance paradigm. The main part of the course is concerned with analysing the elements of each of the substantive prohibitions contained in Part IV of the Act and the way in which they may apply to various agreements and business practices. After considering the substantive prohibitions, the final part of the unit is concerned with remedies and defences and the role played by the Trade Practices Commission, the Tribunal and the Courts.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN051 CONSUMER PROTECTION & PRODUCT LIABILITY

This unit is divided into two main parts. The first part considers the statutory and common law actions which are available to protect consumers from misleading or deceptive conduct and unfair marketing practices. Emphasis is given to the role played by the Trade Practices Act in relation to conveyancing and land transactions, banking transactions and advertising. Unconscionable conduct is also considered. The second part of the unit is concerned with statutory and common law actions available when loss or damage is suffered as a result of defective products. Remedies and defences are considered throughout the course.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN052 LITIGATION – CIVIL PROCEDURE

Focus upon topics of current interest or difficulty in civil procedure. Supreme and Federal Court rules and practice directions are considered in the light of the theories of civil procedure and tactics involved in dispute resolution. Some principles of negotiation and alternative dispute resolution are also addressed. Participants will acquire an appreciation of the dynamics of the adversarial process and an understanding of selected principles of interlocutory disputes in the light of the tactics involved in an action as a whole. Offers an opportunity for students to deepen and broaden their legal education in a way related directly to professional practice.

Courses: LW50, LW51

Credit Points: 12

Contact Hours: 2 per week

■ LWN053 RESEARCH PROJECT 1B

See LWN025.

Courses: LW50, LW51

Prerequisite: LWN025

Credit Points: 12

■ LWN054 CONTEMPORARY COMMERCIAL LEGAL ISSUES

The law and practice of contemporary commercial legal issues; topics covered include the law of commercial obligations, professional negligence and standards of professional conduct in various professions, native

title law and practice, third party securities, crown immunity, equitable infusions into "black letter law", legal problems in property valuation, client-based research in commercial practice, and trends in legal reasoning in commercial law areas.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN055 CIVIL RIGHTS

The central principles concerning the protection of human rights under domestic law; the impact of international human rights law on domestic law; other jurisdictions are compared with the relevant areas of Australian law and practice, particularly in Queensland.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN056 RESEARCH PROJECT 1C

See LWN025.

Courses: LW50, LW51

Prerequisites: LWN025, LWN053

Credit Points: 12 Contact Hours: 2 per week

■ LWN057 RESEARCH PROJECT 1D

See LWN025.

Courses: LW50, LW51

Prerequisites: LWN025, LWN053, LWN056

Credit Points: 12

■ LWN058 RESEARCH PROJECT 2B

See LWN026.

Courses: LW50, LW51 Prerequisite: LWN026

Credit Points: 24

■ LWN059 REMEDIES

The theoretical bases of major common law and equitable remedies and the substantive law relating to those remedies; the operation of the law of remedies in Australia and the need for reform of the law of remedies.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN060 ENVIRONMENTAL LEGAL SYSTEM

Analysis of the principles and concepts of environmental law in Queensland; understanding of the law in Queensland for the protection and conservation of the environment; examination of the way in which the law accommodates private interests and the public interest. Included are pollution control, environmental impact assessment, environmental management, conservation of the natural and cultural environments.

Courses: IF64, LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN061 NATURAL RESOURCES LAW

The principles and concepts of natural resources law in Queensland dealing with the ownership and control of natural resources, providing access to these resources, controlling the operational side of the development of these resources, and recognising commercial structures for achieving these operational objectives; an assessment of a number of developed and evolving mechanisms for achieving these objectives such as policy objectives, management plans, incentives and inducements, market instruments and property rights.

Courses: IF64, LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

Incompatible with: LWN014, LWN027

■ LWN062 FEDERAL ENVIRONMENTAL LAW

History of Commonwealth involvement in environmental management; the Inter-Governmental Agreement of

1992; relevant paragraphs of s.51 of the Constitution; judicial interpretation of the paragraphs; impact of ss 90, 92 and 109 of the Constitution; federal legislation dealing with offshore development, marine environment protection, environmental impact assessment, national estate, wildlife conservation, Great Barrier Reef, hazardous waste and industrial chemicals, world heritage, ozone protection, ecologically sustainable development and biological diversity.

Courses: IF64, LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN063 COMPARATIVE ENVIRONMENTAL LAW

The principles of environmental regulation in other jurisdictions and the range of policy and legal instruments being utilised to achieve environmental objectives; jurisdictions include European countries, including the EEC, North America and the Asia Pacific Region.

Courses: IF64, LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN064 THEORIES OF CONTEMPORARY LEGAL CRITIQUE

The influence upon legal, political and institutional reform of contemporary legal critiques, especially of race, gender, culture and class.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN065 CONSTRUCTION & ENGINEERING LAW

Standard contracts used in the Australian construction and engineering industries and the legal issues confronting users of these documents; the law of contract and legislation as it applies to the construction and engineering industries at an advanced level; issues of drafting in relation to the relevant standard forms.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ LWN066 ADVANCED INSURANCE LAW

Detailed examination at an advanced level of the general principles of law applicable to contracts of insurance as well as an examination of the idiosyncratic rules and practices pertaining to specific types of insurance. Topics include: Nature and definition of insurance; insurable interest; third parties interests; utmost good faith; brokers and agents; formation of contracts, proposals, etc.; contract terms; claims; indemnity and amount recoverable; subrogation; double insurance and contribution; regulation of insurers; marine insurance; workers compensation; compulsory third party insurance; superannuation/ re-insurance contracts.

Courses: LW50, LW51

Credit Points: 24 Contact Hours: 2 per week

■ LWN070 CREDIT FOR UQ SUBJECT 4

See LWN032.

Courses: LW50, LW51 Credit Points: 12

■ LWN071 CREDIT FOR UQ SUBJECT 5

See LWN032.

Courses: LW50, LW51 Credit Points: 12

■ LWN072 CREDIT FOR UQ SUBJECT 6

See LWN034.

Courses: LW50, LW51 Credit Points: 24

■ LWN075 INTERNATIONAL COMMERCIAL TRANSACTIONS

This unit on international trade law addresses the legal problems that arise in the formation and operation of commercial transactions of an international nature. Its

scope is largely confined to the sphere of private law. Topics covered include: sources of, and modern developments in, international trade law; harmonisation and unification of law; international contracts (characteristics, negotiating and drafting, choice of law); international sale of goods (trade terms, standard conditions, uniform law); carriage of goods by sea; payment in a documentary sale, and other financing mechanisms; marketing arrangements (agency, distributorship, subsidiary, joint venture).

Courses: LW50, LW51

Credit Points: 12 **Contact Hours:** 2 per week

Incompatible with: LWN023

■ LWN076 INTERNATIONAL COMMERCIAL DISPUTES

Legal issues regarding the resolution of commercial disputes in international trade. Mainly concerned with disputes in respect of international commercial relationships of a private law nature. Dispute resolution mechanisms (such as litigation, arbitration and alternative dispute resolution) are examined, and their effectiveness evaluated, in the light of the legal and practical realities in the international trade environment. Students are introduced to a range of commercial practices, national regulation, and international uniform rules, model laws and conventions.

Courses: LW50, LW51

Credit Points: 12 **Contact Hours:** 2 per week

Incompatible with: LWN023

■ LWN077 LITIGATION – EVIDENCE

Focus on topics of current interest or difficulty in evidence and advocacy. Rules of admissibility in Queensland and Federal courts are considered, as well as issues of trial and appellate advocacy. Some principles of negotiation and alternative dispute resolution are also addressed. Participants will acquire an appreciation of the dynamics of the adversarial process, understanding of selected principles of admissibility and knowledge of key forensic skills such as examination and cross-examination of witnesses. This unit offers an opportunity for students to deepen and broaden their legal education in a way related directly to their professional needs.

Courses: LW50, LW51

Credit Points: 12 **Contact Hours:** 2 per week

Incompatible with: LWN052 pre 1995

■ LWN100 HONOURS DISSERTATION

A dissertation by students enrolled in the Master of Laws by Coursework who have obtained 96 credit points with a GPA of 6 or better. The dissertation is between 20,000 and 30,000 words in length.

Courses: LW50, LW51

Credit Points: 48

■ LWR001 THESIS

The dissertation should make a notable contribution to professional knowledge and practice which may be in the form of new knowledge or significant original adaptation, application and interpretation of existing knowledge and practice.

Course: LW50

Credit Points: 36

■ LWR002 THESIS

See LWR001.

Course: LW50

Credit Points: 48

■ LWR101 THESIS

See LWR001.

Course: LW50

Credit Points: 12

■ LWR102 THESIS

See LWR001.

Course: LW50

Credit Points: 24

■ LWS001 MEDICINE & THE LAW

The impact of some important fields of law upon the medical profession and upon hospital staff, patients and visitors. Introduction to law and the legal system. The Federal and State systems; general principles of the law of tort; principles of negligence; trespass; liability of hospitals; industrial law and industrial relations; workers' compensation; legal aspects of medical practice; medico-legal investigations; medical ethics. A consideration of emerging legal issues surrounding surrogate motherhood and test-tube babies. Relevant Commonwealth and Queensland legislation and regulations and court decisions.

Courses: LS85, NS48, PU48

Credit Points: 12 **Contact Hours:** 3 per week

■ LWS005 LAW & NURSING

Introduction to the Australian legal system; Commonwealth and State powers concerning health; consent and treatment/restraint of patients; negligence; the relationship between employer and employee; removal of patients from life support equipment and the law on euthanasia; abortion; transplantation of organs and tissue; medical records and confidentiality; control of poisons; the Coroners Act (Qld).

Courses: NS40, NS48

Credit Points: 8 **Contact Hours:** 3 per week

■ LWS006 HEALTH ETHICS & THE LAW

The legal issues associated with the matter of public health and an appreciation of the legal and ethical implications of the work done by health care professionals in this area. Topics include: introduction to the Australian legal system; tort law and its impact upon the public health system; workplace health and safety legislation; medical records and confidentiality; criminal law and the health care profession; transplantation of organs and tissues; complaints against hospitals and health care professionals.

Courses: HL85, NS48, NS85, PU69, PU85

Credit Points: 12 **Contact Hours:** 3 per week

■ MAA251 STATISTICS & DATA PROCESSING

A basic unit in statistics, including statistical terminology and organisation of data, elementary probability, binomial and normal distribution, sampling theory, regression and correlation.

Courses: LS12, LS15, SC12

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB003 MATHEMATICS FOR SCIENCE & TECHNOLOGY 1

Algebra: Complex numbers, Cartesian form, Argand diagram; determinants and matrices; solution of linear equations; elementary vector algebra. Differential Calculus: functions of a single variable, limits, derivatives of standard functions, higher derivatives, series expansions, applications.

Courses: CF42, EE43, EE44, IF23, IF34, IF52, IF53, ME45, ME46, SC30

Credit Points: 6 **Contact Hours:** 3 per week

■ MAB004 MATHEMATICS FOR SCIENCE & TECHNOLOGY 2

Algebra: Complex numbers, polar and exponential forms, applications. Vector Analysis: scalar and vector products, differentiation of vectors, applications. Differential Calculus: hyperbolic functions, partial derivatives, total derivative, applications.

Courses: CF42, EE43, EE44, IF23, IF34, IF52, IF53, ME45, ME46, SC30

Credit Points: 6 **Contact Hours:** 3 per week

MAB102 BASIC MATHEMATICS

Algebra; factorising polynomials; index and logarithm laws; AP and GP; trigonometrical ratios; Pythagorean identities; graphs; sine rule and cosine rule; coordinate geometry; equations of lines and standard conics; introduction to differential calculus; curve sketching; Newton-Raphson method; elementary integration; definite and indefinite integrals; use of tables of integrals; Simpson's rule.

Course: SC30

Credit Points: 12 Contact Hours: 4 per week

MAB103 INTRODUCTORY ENGINEERING MATHEMATICS

Computational mathematics; algebra; circular functions, trigonometric functions; vector algebra: addition of vectors, unit vectors, scalar products; linear algebra: elementary matrix algebra, solution of linear equations; complex numbers: cartesian form, addition, multiplication, modulus and argument, Argand diagram; differential calculus: elementary functions, definite and indefinite integration.

Courses: CE31, CE42, EE43, EE44, IF23, IF52, IF54, IF56, ME35, ME45, ME46, PS47

Credit Points: 8 Contact Hours: 3 per week

MAB151 QUANTITATIVE TECHNIQUES

A basic mathematics unit with emphasis on the interpretation of data and the application of numerical techniques.

Course: PH38, PH90

Credit Points: 4 Contact Hours: 2 per week

MAB152 QUANTITATIVE METHODS

Organisational, analysis and interpretation of data; practical problems in basic calculus techniques and numerical methods; probability distributions; sampling; estimation; regression and correlation.

Courses: PU42, PU44, PU45

Credit Points: 8 Contact Hours: 3 per week

MAB172 STATISTICAL METHODS

Organisation and analysis of data; use of computer packages in data analysis; probability and probability distributions; sampling theory; estimation: testing of hypotheses; regression and correlation.

Courses: BS50, IT20

Credit Points: 12 Contact Hours: 3 per week

MAB173 QUANTITATIVE METHODS

To enable students to use mathematical reasoning and skills to obtain solutions to financial, economic and general business problems. On completion, students should have an understanding of the types of problems amenable to a mathematical solution; they should be able to develop appropriate mathematical models and appreciate any limitations or assumptions and solutions to these models.

Courses: BS50, IF31

Credit Points: 12 Contact Hours: 3 per week

MAB177 MATHEMATICS FOR DATA COMMUNICATIONS

Provides the basic mathematical background required for the study of data communication; coding theory and cryptography.

Course: IT20

Credit Points: 12 Contact Hours: 3 per week

MAB178 MATHEMATICS FOR TELECOMMUNICATIONS

Fundamentals of probability and random processes as required for the modelling and mathematical analysis of data communication networks; basics of queueing theory and queueing models and their applications in

the study of telecommunication networks.

Course: IT20

Prerequisite: MAB177

Credit Points: 12 Contact Hours: 2 per week

MAB181 APPLIED MATHEMATICS FOR DESIGNERS 1

Applications of plane and solid geometry in design; revision of basic geometry; symmetry; construction and packing of solids; spherical geometry and its applications. Applications of trigonometry in design; revision of basic trigonometry; calculation of heights, distances, areas and volumes. Data collection and analysis in design; introduction to statistics; use of computers in data analysis; computer programming.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

MAB183 MATHEMATICS 1

Computational mathematics; circular functions-trigonometric identities; vector algebra-addition/subtraction of vectors, components and projections, modulus, unit vectors, scalar products; linear algebra-elementary matrix algebra, solution of linear equations; complex numbers-cartesian form, addition/subtraction, multiplication, modulus and argument, Argand diagram; differential calculus-elementary functions, product and quotient rules, chain rule.

Course: CE31, ME35

Credit Points: 8 Contact Hours: 3 per week

MAB184 MATHEMATICS 2

Computational mathematics: errors/accuracy, solution of equations, use of mathematical support software (DERIVE); vector algebra-vector products, scalar and vector triple products; complex numbers-polar and exponential forms, applications; differential calculus-trigonometric, exponential and logarithmic functions, applications to max/min, limits, rates of change; indefinite integration-standard forms; integration by parts, integration by substitution, applications.

Course: CE31, ME35

Credit Points: 8 Contact Hours: 3 per week

MAB185 INTRODUCTION TO STATISTICS

Data and its presentation, qualitative reporting of graphical presentations; distributions: properties and parameters, normal probability plots; sampling: correlated versus independent observations, mean and other statistics, normal case; confidence intervals for means/proportions and differences of means/proportions, pairing, tolerance limits, introduction to quality and SPC, variance; hypothesis testing, tests for means/proportions; basic concepts of experimentation, and ANOVA; introduction to regression; introduction to product and system reliability.

Course: CE31, ME35

Credit Points: 8 Contact Hours: 3 per week

MAB186 MATHEMATICS 3

Computational mathematics: numerical integration; differential calculus: hyperbolic functions, partial derivatives, total differential, applications; vector calculus: differentiation of vectors, applications; definite integration-areas, volumes, arc lengths, centroids, moments of inertia, multiple integrals.

Course: ME35

Prerequisite: MAB184

Credit Points: 8 Contact Hours: 3 per week

MAB187 ENGINEERING MATHEMATICS 1A

Vector algebra: scalar and vector triple products, vector equation of a straight line; matrix algebra: determinants, inverse matrix; solution of systems of linear equations. Binomial and geometric series; exponential functions: expansion, natural logarithms; gradient of a curve,

derivatives, trigonometric functions, Taylor series; implicit functions, log function, logarithmic and parametric differentiation, curve sketching. Definite integration: approximation of integrals, fundamental theorem of calculus, integration by parts, substitution, improper integrals.

Courses: CE31, CE42, EE43, EE44, IF23, IF52, IF54, IF56, ME45, ME46, ME85, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB188 ENGINEERING MATHEMATICS 1B

Vector algebra: moments, forces, velocity, acceleration, polar coordinates, differentiation of scalar and vector products, grad; matrix algebra: eigenvalues, eigenvectors. Differentiation: Newton-Raphson method; hyperbolic functions, inverse functions; functions of several variables; partial derivatives, chain rule. Integration: double integrals, volume under a surface, polar coordinates; differential equation: solution of first order differential equations, linear differential equations; applications in engineering.

Courses: CE31, CE42, EE43, EE44, IF23, IF52, IF54, IF56, ME35, ME45, ME46, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB195 QUANTITATIVE METHODS 1

Applications of plane and solid geometry in design, revision of basic geometry; construction and packing of solids; spherical geometry and its applications. Application of trigonometry in design; calculation of heights, distances, areas and volumes.

Course: BN30

Credit Points: 6 **Contact Hours:** 3 per week

■ MAB196 QUANTITATIVE METHODS 2

Data collection and analysis in design; introduction to statistics; use of computers in data analysis.

Course: BN30

Prerequisite: MAB181

Credit Points: 6 **Contact Hours:** 3 per week

■ MAB212 MATHEMATICS 1

Vectors, algebra; matrices; solution of systems of linear equations. Differentiation; second and higher derivatives; exponential, trigonometric, hyperbolic and inverse functions. Logarithmic, implicit and parametric differentiation. Rates of change, maxima and minima, curve sketching, L'Hopital's rule. Definite and indefinite integrals, fundamental theorem of calculus. Integration by substitution and by parts. Improper integrals. Polar coordinates.

Courses: CH32, ED50, IF34, IT20, SC30

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB222 MATHEMATICS 2

Areas, volumes, lengths of curves and surface areas. Simple improper integrals. Rotation of axes in the plane. Differentiation of vectors, simple kinematic applications. Series expansions of functions by Taylor and Maclaurin series; ratio test; approximations. Complex numbers; modulus, Argand diagram, exponential form; De Moivre's theorem; applications. Ordinary differential equations. First order: variables separable; exact linear. Second order: linear homogeneous differential equations with constant coefficients. Partial differentiation; geometrical interpretation, partial derivatives of higher order.

Courses: ED50, IF34, SC30 **Prerequisite:** MAB212

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB232 DISCRETE MATHEMATICS

Combinatorics; logic; set theory; axiomatic systems; modular arithmetic; rings, integral domains, fields; finite groups; number theory; difference equations.

Courses: ED50, IF34, IT20, SC30

Co-requisite: MAB222

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB237 STATISTICS

The collection of statistical data from surveys and experiments, how to investigate and analyse the data and how to draw valid conclusions. Students study real data via computer packages and are introduced to estimation, hypothesis testing, regression and analysis of variance.

Courses: CH32, ED50, IF34, SC30

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB251 MATHEMATICS 1

Data handling; determinants and matrices; differentiation with applications; partial differentiation; integral calculus with applications; numerical methods.

Course: OP42

Credit Points: 8 **Contact Hours:** 4 per week

■ MAB252 STATISTICS

Organisation and analysis of data; probability and probability distributions; sampling theory; estimation; tests of hypothesis; regression and correlation.

Course: OP42

Prerequisite: MAB251

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB258 EXPERIMENTAL DESIGN

Examination of experimental design and data analysis in optometry; topics include: goodness of fit tests and tests of independence using chi-square distribution; introduction to multiple regression; statistical quality control; analysis of variance, introduction to non-parameter methods.

Course: OP42

Prerequisite: MAB252

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB272 RESEARCH METHODS

Students in the information management and information systems fields should have knowledge of a variety of techniques associated with collecting and analysing data, be capable of critical interpretation of survey research and be able to use data reduction techniques themselves. In addition to an introduction to descriptive statistics and statistical inference, this unit introduces historical and theoretical approaches and compares rationalisation with experimentation.

Course: IT20

Prerequisites: Completion of at least 60 credit points from the Information Management or Information Systems majors in IT20.

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB297 MATHEMATICS FOR CONSTRUCTION

Data handling and basic algebra, geometry, trigonometry, vector techniques; introduction to financial mathematics, probability and statistics.

Courses: CN31, CN33

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB298 MATHEMATICS & STATISTICS

See MAB297.

Course: CN32

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB299 MATHEMATICS FOR TECHNOLOGISTS

Data handling and basic algebra, geometry and trigonometry. Introduction to statistics, organisation and analysis of data, probability and probability distribution; sampling theory; estimation; test of hypothesis; regression and correlation. Introduction to quantitative operation research methods applicable in solving

economic and general business problems, including linear programming, transportation and assignment methods, dynamic programming, decision trees, etc.
Courses: CN41, CN43

Prerequisites: First Year Subject

Credit Points: 6 Contact Hours: 3 per week

■ MAB301 CALCULUS & ANALYSIS A

Levels of measurement and their relationship to particular operations with real numbers, accuracy and precision; basic algebraic, geometric and trigonometric results; introduction to the concepts of function, limits, continuity and monotonicity; elements of differential and integral calculus, associated theorems and analytical and numerical applications.

Courses: ED50, IF34, MA34, SC30

Credit Points: 12 Contact Hours: 4 per week

■ MAB303 ALGEBRA & ANALYSIS B

Set theory, relations and functions; introduction to difference equations; infinite series; complex numbers; linear equations; matrices and determinants; vector spaces; eigenvalues and eigenvectors.

Courses: IF34, MA34, SC30

Co-requisite: MAB301

Credit Points: 12 Contact Hours: 4 per week

■ MAB304 CALCULUS & VECTOR ALGEBRA

First order and linear second order differential equations, simple applications; vector algebra; vector products; Euclidean spaces; vector calculus: space curves, line integrals; kinematics of a particle.

Courses: IF34, MA34, SC30 Prerequisite: MAB301

Credit Points: 12 Contact Hours: 4 per week

■ MAB321 COMPUTATIONAL MATHEMATICS 1

Sources of errors; computer arithmetic; computations with polynomials, standard functions, recurrence relations and series; computations with data, searching, sorting, sums and means; computations with arrays; use of calculators, programming languages and graphical/mathematical software.

Courses: ED50, IF34, MA34, SC30

Co-requisites: MAB301 or MAB212

Credit Points: 12 Contact Hours: 4 per week

■ MAB342 MATHEMATICS OF FINANCE

Interest rates; solution of problems in compound interest; annuities; applications of annuities; capital redemption policies; valuation of securities; introduction to basic modelling techniques.

Courses: ED50, IF34, MA34, SC30

Credit Points: 12 Contact Hours: 4 per week

■ MAB347 STATISTICS 1A

Collection and representation of data, parameters and statistics; sampling; sample mean and variance; statistical estimation and tests of hypotheses based on the normal, t, F and chi-square distributions; control charts; linear regression; introduction to experimental design and ANOVA.

Courses: ED50, IF34, MA34, SC30

Credit Points: 12 Contact Hours: 4 per week

■ MAB348 STATISTICS 1B

Probability; conditional probability; random variables and probability distributions; binomial, Poisson, exponential, uniform, normal; expected values and moments, sums and differences of random variables; q-q plots, correlation, multiple regression; power; goodness-of-fit; introduction to non-parametric tests.

Courses: BS50, ED50, IF34, MA34, SC30

Prerequisites: MAB347 or credit in MAB237

Co-requisites: MAB212 or MAB301

Credit Points: 12 Contact Hours: 4 per week

■ MAB422 TOPICS IN MATHEMATICS

Topics in geometry, recreational mathematics, and the history of mathematics.

Courses: ED50, SC30

Credit Points: 12 Prerequisite: MAB222
Contact Hours: 4 per week

■ MAB432 MATHEMATICS 3

Laplace transforms; ordinary differential equations of first and higher order; multivariable calculus.

Course: SC30

Credit Points: 12 Prerequisite: MAB222
Contact Hours: 4 per week

■ MAB452 MATHEMATICS 4

Partial differential equations. Complex analysis; Cauchy-integral theorem, Laurent-series; residue theorem. Fourier series and Fourier transforms. Vector analysis, Green's theorems, Stokes' theorem, the Divergence theorem. Applications to physics.

Course: SC30

Credit Points: 12 Prerequisite: MAB432
Contact Hours: 4 per week

■ MAB487 ENGINEERING MATHEMATICS 2A

Solution of large scale systems of line equations by direct and indirect methods; solution of second order differential equations with constant coefficients; numerical solution of differential equations; polynomial approximation, finite differences, Newton-Gregory formulas.

Courses: CE42, EE43, IF56, ME45, ME46

Credit Points: 8 Contact Hours: 3 per week

■ MAB488 ENGINEERING MATHEMATICS 2B

Determination of eigenvalues and eigenvectors of large scale line systems, power method, inverse iteration, acceleration techniques; interpolation by cubic splines; Fourier series and Harmonic analysis; convergence of infinite series.

Courses: CE42, EE43, IF56, ME45, ME46

Credit Points: 8 Contact Hours: 3 per week

■ MAB493 ENGINEERING MATHEMATICS 2

Solution of systems of linear equations by direct and iterative methods, rank of a matrix; representation of a function by Taylor series, Maclaurin series, Fourier series; finite differences, polynomial interpolation, Newton-Gregory interpolation formula; solution of first and second order differential equations, operator-D and Laplace transform methods. Taylor series and Runge-Kutta techniques; basic descriptive statistics, probability theorems, distributions.

Courses: CE42, EE43, EE44, IF23, IF53, ME45, ME46

Prerequisite: MAB193

Credit Points: 12 Contact Hours: 3 per week

■ MAB494 SURVEY MATHEMATICS 1

Spherical trigonometry: definition of sphere, circles on sphere and spherical triangles; columnar, antipodal and polar triangles; sine, cosine and half-angle formulae, Napier's and Delembre's analogies; solution of spherical triangles, spherical excess, area of spherical triangle; relation between plane and spherical trigonometry; differential calculus; Taylor and Maclaurin series for functions of a single variable; extension to functions of several variables; maxima and minima with constraints, Lagrange multipliers; integral calculus: evaluation of double and triple integrals, change of order of integration.

Course: IF54, PS47

Credit Points: 6 Prerequisite: MAB188
Contact Hours: 3 per week

■ MAB496 SURVEY MATHEMATICS 2

Linear algebra: systems of linear equations in two and three dimensions, the no solution, many solution and unique solution cases, geometric interpretation; extension of concepts to large scale systems, matrix formulation. Matrices: elementary matrix algebra, equality, addition, multiplication by a scalar, matrix products, inverse matrix, transpose matrix; types of matrix, elementary matrices, identity matrices, singular and non-singular matrices, symmetric matrices; orthogonal matrices; reduction of a matrix to echelon form. Eigenvalue problem: solution of characteristic equation in two and three dimensions, corresponding eigenvectors; reality of eigenvalues in symmetric cases; quadratic forms, principal axes; geometrical applications, (classification of conics), extension of concepts to large scale system.

Course: PS47

Prerequisite: MAB497

Credit Points: 6

Contact Hours: 3 per week

■ MAB601 MULTIVARIABLE CALCULUS

Differentiation, extrema; double integrals, triple integrals, surface integrals; functions of a complex variable, analyticity, complex integration.

Courses: IF34, MA34, SC30

Prerequisites: MAB303, MAB304

Credit Points: 12

Contact Hours: 4 per week

■ MAB602 VECTOR FIELD THEORY

Vector analysis; scalar and vector fields; line integrals; surface integrals; differential field operators; the integral properties of fields. Tensor analysis; curvilinear coordinates; application to potential theory; hydrodynamic theory, electromagnetic theory; calculus of variations; functionals; Euler's differential equation; problems with subsidiary conditions.

Courses: MA34, SC30

Prerequisite: MAB601

Credit Points: 12

Contact Hours: 4 per week

■ MAB612 DIFFERENTIAL EQUATIONS

Mathematical modelling with differential equations; wellposedness of first order differential equations and graphical methods; theory of linear systems and nth order differential equations, solutions for constant coefficients; series; Laplace Transform; boundary value problems; Fourier series; separation of variables method for partial differential equations.

Courses: MA34, SC30

Prerequisites: MAB303, MAB304

Credit Points: 12

Contact Hours: 4 per week

■ MAB618 COMPUTATIONAL MATHEMATICS 2

Linear equations; numerical solution of a single non-linear equation; interpolation; quadrature; numerical solution of a single first order differential equation.

Courses: IT20, MA34, SC30 Prerequisite: MAB321

Credit Points: 12

Contact Hours: 4 per week

■ MAB620 FINITE MATHEMATICS

Logic; axioms, proofs, truth-table decidability; set theory, relations, factions; number theory: primes and divisibility, Fermat's and Euler's theorems; greatest common divisor, Euclid's algorithm; primitive roots; arithmetic functions; abstract algebra: Boolean algebras, groups, rings, fields; automata: finite state machines.

Courses: IT20, MA34, SC30 Prerequisite: MAB303

Credit Points: 12

Contact Hours: 4 per week

■ MAB630 LINEAR ALGEBRA & ITS APPLICATIONS

Concrete and abstract vector spaces; matrices; linear systems and determinants; inner products and the pro-

jection theorem; linear operators on a unitary space; eigenvalues; applications.

Courses: ED50, IT20, MA34, SC30 Prerequisite: MAB303

Credit Points: 12

Contact Hours: 4 per week

■ MAB632 MATHEMATICAL MODELLING

Models are taken mainly from the areas of medicine and biology, including cancer research and population growth, and from mechanics applied to sport. Emphasis is on the mathematical modelling and not on the development of new mathematical techniques.

Courses: ED50, MA34, SC30

Prerequisites: MAB303, MAB304 or MAB212, MAB222

Credit Points: 12

Contact Hours: 4 per week

■ MAB637 OPERATIONS RESEARCH 1A

Linear programming; replacement, maintenance and reliability; project scheduling techniques; simulation.

Courses: ED50, IF34, IT20, MA34, SC30

Prerequisites: CSB155, MAB303, MAB347

Credit Points: 12

Contact Hours: 4 per week

■ MAB638 OPERATIONS RESEARCH 1B

Transportation, transshipment and assignment models; sensitivity analysis and duality; inventory models; introduction to queueing theory.

Courses: IF34, IT20, MA34, SC30

Prerequisite: MAB637

Credit Points: 12

Contact Hours: 4 per week

■ MAB641 ACTUARIAL MATHEMATICS

Mathematics of finance; fixed interest securities, pure endowments and life annuities; assurances; policy values; mortality laws, population projections, superannuation, introduction to general insurance.

Courses: IF34, MA34, SC30

Prerequisites: MAB301, MAB342

Credit Points: 12

Contact Hours: 4 per week

■ MAB642 METHODS OF MATHEMATICAL ECONOMICS

The nature of mathematical economics; optimisation theory and its application in economics; ordinary differential equations and economic dynamics; difference equations in the theory of growth and trade cycles; systems of simultaneous equations, multi-market equilibrium, stability, equilibrium of dynamic macroeconomic models.

Courses: IF34, MA34, SC30

Prerequisites: MAB304, MAB342

Credit Points: 12

Contact Hours: 4 per week

■ MAB647 STATISTICS 2A

Bivariate distributions; conditional distributions; covariance; moment generating functions; joint mgf's and their uses in iid cases; transformations; sampling distributions; sampling from finite populations; introductory Markov chains; time series and auto correlation; convergence ideas; order statistics.

Courses: BS50, ED50, IF34, MA34, SC30

Prerequisites: MAB348, MAB301

Co-requisite: MAB303

Credit Points: 12

Contact Hours: 4 per week

■ MAB648 STATISTICS 2B

Single and multiple regression analysis, prediction and estimation; use of Minitab package, residual plots; blocking, 2 and 3 factor designs, general theory for 2k designs, additive and interaction models; orthogonal contrasts.

Courses: BS50, ED50, IF34, MA34, SC30

Prerequisite: MAB348

Credit Points: 12

Contact Hours: 4 per week

■ MAB795 SURVEY MATHEMATICS 3

Transformation in three dimensions: central projection, the near parallel case. Numerical analysis: propagation of errors, solution of nonlinear equations. Approximation and interpolation. Solution of simultaneous linear equations, Gaussian elimination, compact methods, Choelsky, iterative methods.

Courses: IF52, IF54, PS47 **Prerequisite:** MAB495
Credit Points: 6 **Contact Hours:** 3 per week

■ MAB893 ENGINEERING MATHEMATICS 3

Data analysis in engineering contexts with emphasis on real data and use of computer packages; estimation, testing, SPC, regression, ANOVA, reliability.

Courses: CE42, EE43, EE44, IF23, IF54, ME45, ME46, PS47

Prerequisite: MAB493

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB894 ENGINEERING MATHEMATICS 4

The simultaneous partial differential equations of Maxwell; the three-dimensional wave equation; vector analysis; mathematical problems involving Maxwell's equations; complex variable; Cauchy-Riemann equations; Laurent series.

Courses: EE43, EE44, IF23 **Prerequisite:** MAB493
Credit Points: 6 **Contact Hours:** 3 per week

■ MAB906 TOPICS IN ANALYSIS

Convergence in \mathbb{R} ; uniform convergence; measure theory: measurable sets and functions; Lebesgue integrals; metric spaces, contraction mapping principle; normed and Banach spaces, dual spaces and linear operators. Hilbert spaces, $O(N)$ basis, self-adjoint operators.

Courses: IF49, MA34, SC30, SC60, SC80

Prerequisite: MAB601

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB907 STATISTICS 3A

Estimation; testing; exponential; linear models; introduction to generalised linear models; multicollinearity, heteroscedasticity, effect of auto-correlation; non linear LSE; diagnostics.

Courses: IF34, MA34, SC30

Prerequisites: MAB647, MAB648, MAB303

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB908 STATISTICS 3B

Experimental design; response surfaces; optimal design; transformations, diagnostics, influential observations, some EDA, likelihood, deviance.

Courses: IF34, MA34, SC30

Prerequisite: MAB648

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB911 COMPUTATIONAL MATHEMATICS 3A

Zeros of polynomials; solution of special types of matrix systems by direct methods; matrix and vector norms, eigenvalues and eigenvectors; solutions to systems of linear equations by indirect methods; solution of non-linear equations; ordinary differential equations (ODEs); the eigenvalue problem.

Courses: MA34, SC30 **Prerequisite:** MAB618

Co-requisite: MAB630

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB912 CONTINUUM MODELLING

Revision of elementary vector analysis; vector field theory; curvilinear coordinates; mathematical models of fluid motion including circulation and vorticity; Bernoulli equation and applications; incompressible potential flow; equations of motion and some exact solutions of the Navier-Stokes equations; introduction

to the use of a computational fluid dynamics package, FLUENT.

Courses: MA34, SC30, SC60

Prerequisites: MAB601, MAB612

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB913 COMPUTATIONAL MATHEMATICS 3B

Hilbert spaces; the projection theorem; application to discrete polynomial and trigonometric approximation; Legendre polynomials; Gaussian quadrature; Chebyshev polynomials; Chebyshev approximation. Reduction of a matrix to upper Hessenberg form by similarity transforms, orthogonal reductions, Givens and Householder methods, determination of eigen-systems by the QR algorithm, emphasis on symmetric matrices. Stability analyses for IVPs, types of instability, inherent and induced, partial instability.

Courses: MA34, SC30, SC60, SC80, IF49

Prerequisite: MAB619

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB927 OPERATIONS RESEARCH 2A

Algorithms of linear programming; integer and mixed integer programming; non-linear programming; dynamic programming; heuristic methods.

Courses: IF34, MA34, SC30 **Prerequisite:** MAB638

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB928 OPERATIONS RESEARCH 2B

Simulation; queueing theory; decision analysis; implementation in operations research.

Courses: IF34, MA34, SC30 **Prerequisite:** MAB637

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB929 TIME SERIES & STATISTICAL FORECASTING

Fundamentals of time series analysis; time series models; non-stationary processes; seasonal ARIMA models; exponential smoothing; transfer function analysis; vector autoregression; combined forecasts; state-space models and the Kalman filter.

Courses: MA34, SC30, SC60, SC80, IF49

Prerequisites: MAB601, MAB647, MAB648

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB933 MATHEMATICAL BIOLOGY

Population ecology, using both discrete and continuous models; predator-prey interactions; enzyme kinetics; epidemics and developmental biology.

Courses: MA34, SC30

Prerequisites: MAB601, MAB612, MAB632

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB941 MATHEMATICAL MODELLING IN ECONOMICS

Comparative static analysis; optimisation theory; techniques for dynamic economic models; stability theory; optimal control theory.

Courses: MA34, SC30

Prerequisite: MAB642

Co-requisite: MAB601

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB942 OPTIMISATION METHODS

Numerically based algorithms for function optimisation and non-linear equation solving; classical methods of optimising non-linear functions with non-linear inequality constraints; global optimisation strategies.

Courses: MA34, SC30, SC80

Prerequisites: MAB601, MAB618

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB960 PROJECT WORK

Projects vary in nature and may involve the collection and evaluation of mathematical techniques in some field of interest or the formulation of a problem of

interest and the derivation of a solution. Practical community/industry orientated projects are encouraged. Each project is undertaken by a student, or group of students, and is supervised by a member of staff who provides guidance throughout the duration of the project.

Courses: MA34, SC30

Prerequisites: Successful completion of at least 192 credit points including at least two units from List D of the course requirements.

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB970 PROBABILITY THEORY & STOCHASTIC PROCESSES

Probability measures, conditional probability; distributions and random variables. Convergence of random variables; strong and weak laws of large numbers; central limit theorems. Markov processes: birth and death, queues; epidemics; inference. Point processes: marked point processes; filtered processes; inference, simulation. Branch process.

Courses: MA34, SC60, SC30, SC80, IF49

Prerequisite: MAB647

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB971 ADVANCED MATHEMATICS OF FINANCE

Background to investment, investment objectives and philosophy; types of markets, equity, debt securities, derivatives; portfolio theory; investment performance measurement.

Courses: MA34, SC30, SC60, SC80

Prerequisite: MAB641

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB973 PARTIAL DIFFERENTIAL EQUATIONS

Derivation of first and second order partial differential equations; solution of partial differential equations by characteristics, separation of variables and Laplace and Fourier transforms; a study of Schrodinger's wave equation.

Courses: MA34, SC30, SC60, SC80, IF49

Prerequisites: MAB601 or MAB602, MAB612

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB974 SAMPLING & SURVEY TECHNIQUES

Random sampling; estimates; design of questionnaires; data quality and errors in surveys; systematic, cluster and double sampling plans; imputation techniques; alternatives to household surveys.

Courses: MA34, SC30, SC60, SC80

Prerequisites: MAB647, MAB648

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB975 ORDINARY DIFFERENTIAL EQUATIONS & CHAOS

Ordinary differential equations; eigenvalues of systems of ordinary differential equations; system stability using phase plane portraits; chaotic systems; analytic and numerical solution of equations describing systems with chaotic and singular behaviour.

Courses: SC60, SC80, IF49

Prerequisites: MAB601, MAB612, MAB911

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB976 RELIABILITY & SURVIVAL ANALYSIS

Failure rates; life distributions and inference; extreme values; fitting tails; flood data; IFR, NBU; system reliability; censored sampling; Cox's proportional hazards model; competing hazards.

Courses: SC60, SC80, IF49

Prerequisites: MAB647, MAB648

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB977 SCHEDULING & NETWORKS

Inventory systems, production planning and scheduling; aggregate planning and master scheduling, requirement planning, LP, LDR and SDR techniques. Scheduling problems, sequencing problems, flow-shop and job shop scheduling problems. Network flows.

Courses: SC60, SC80

Prerequisites: MAB927, MAB928

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB978 STATISTICAL SIGNAL PROCESSING & IMAGE ANALYSIS

Signal processing; time domain; Kalman filtering and prediction. Frequency domain: spectral representation of stationary processes. Inference for the spectrum of a stationary process. The cross spectrum. Spectral representation of multivariate stationary time series. Prediction in the frequency domain. Statistical image analysis: spatial processes. Regression and spatial autocorrelation. Two dimensional spectral analysis, two dimensional filtering and image enhancement. Image compression.

Courses: SC60, SC80, IF49 **Prerequisite:** MAB929

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB979 STATISTICAL MODELLING & DATA ANALYSIS

Robust procedures and principles: influence function; robust estimation; simulation studies; M-estimation. Distribution theory of statistics based on ranks. Robust regression. EDA; graphics; model choice, assessment and fitting: distributional families used in data analysis, inference studies and simulations; transformations, including Box-Cox. Outliers.

Courses: SC60, SC80, IF49

Prerequisites: MAB601, MAB907

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB980 STOCHASTIC PROCESSES & APPLICATIONS

Gaussian processes; Brownian motion; diffusions; stochastic equations; martingale; random walks; central limit theorems; epidemic models; queuing models; stochastic compartment models; extreme value theory for stochastic processes.

Courses: SC60, SC80, IF49

Prerequisites: MAB970 or (MAB906, MAB929)

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB981 APPLIED STATISTICAL INFERENCE & EXPERIMENTATION

Normal error models: multiple linear regression; diagnostics; prediction. Non-normal error models: likelihood theory; quasi likelihood; diagnostics. Modern data analysis techniques: smoothers.

Courses: SC60, SC80, IF49

Prerequisites: MAB630, MAB907, MAB908

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB984 ACTUARIAL STATISTICS

Distribution theory; financial stochastic models and their use in problem-solving; credibility, utility and risk theory; loss and ruin models.

Courses: SC60, SC80

Prerequisite: MAB907

Co-requisite: MAB970

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB985 COMPUTATIONAL MATHEMATICS 4

The diffusion equation, finite difference methods, DuFort-Frankel and Crank-Nicholson methods, alternating direction methods; stability considerations. Elliptic boundary value problems, finite difference methods. Hyperbolic type equations, use of finite differences, method of characteristics. Use of software packages.

Courses: SC60, SC80, IF49 **Prerequisite:** MAB911
Credit Points: 12 **Contact Hours:** 4 per week

■ MAB986 MATHEMATICAL MODELLING OF INDUSTRIAL PROCESSES

Solution of the steady/unsteady heat conduction equation with: variable thermal conductivity, different types of boundary conditions, irregular boundaries, moving interfaces, eg. solidification, non-linear forms, eg. natural convection, point sources. Derivation and discussion of the viscous fluid flow equations: primitive form of equations, stream function and vorticity transport form, conservative and non-conservative forms, stability, solving the equations numerically, boundary conditions.

Courses: SC60, SC80, IF49

Prerequisites: MAB973, MAB601, MAB913

Co-requisites: MAB985

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB987 OPTIMISATION OF CONTROLLED PROCESSES

Calculus of variations, Lagrange formulation, Mayer formulation, Bolza formulation, constraints, corner conditions, transversal conditions. Pontryagin's maximum principle. Relationship of the above to dynamic programming. Practical applications of the above to: design of optimal control strategies, time optimal control, optimal continuous scheduling.

Courses: SC60, SC80, IF49

Prerequisites: MAB601, MAB612

Credit Points: 12 **Contact Hours:** 4 per week

■ MAB989 PROJECT

Project and thesis component of Honours course (SC60).

Course: SC60

Co-requisites: Approved Honours program.

Credit Points: 36

■ MAN001 READING COURSE 1

Provides the candidate with the appropriate background at an advanced level necessary for the completion of a research program.

Course: SC80

Credit Points: 8

■ MAN002 READING COURSE 2

See MAN001.

Course: SC80

Credit Points: 12

■ MAN009 EXPERIMENTAL DESIGN AND STATISTICAL ANALYSIS

The development of further statistical understanding and techniques for researchers in other areas.

Courses: AT22, BN71, BN72, BN73, BS81, BS83, BS84, BS85, BS87, CE74, CN77, CS36, ED11, ED12, ED13, EE75, EE78, HL50, HL52, HL58, HL88, IF49, IS50, IT84, LS85, ME76, NS64, NS85, PH80, PU65, PU69, SC80

Prerequisites: At least one undergraduate statistics unit

Credit Points: 12 **Contact Hours:** 4 per week

■ MAN012 ADVANCED STUDIES

Advanced studies in quality management concepts and techniques with emphasis on the application of statistics.

Course: SC60

Prerequisites: Permission of the Head of School

Credit Points: 12 **Contact Hours:** 4 per week

■ MAN120 QUANTITATIVE SYSTEMS ANALYSIS

The use of quantitative models in the solution of problems for quality systems; model formulation, inventory systems, production planning and scheduling and simulation.

Course: BS86, IF66

Credit Points: 6

Contact Hours: 3 per week

■ MAN210 DESIGNED EXPERIMENTS FOR QUALITY IMPROVEMENTS

The principles underlying the design of experiments; a practical approach explains the procedures used, with emphasis on the use of robust techniques for industrial experimentation and explanatory studies.

Course: BS86

Credit Points: 6

Contact Hours: 3 per week

■ MAP111 STATISTICAL METHODS IN QUALITY

Describing variation; boxplot, histogram, estimation of process parameters, misuse of measures. Normal distribution; application to quality phenomena, probability paper. Important distributions for describing quality-related phenomena by attribute; hypergeometric, binomial, Poisson, approximations. Sampling distributions; interval estimation for normal and binomial, test of hypothesis, consumer and supplier risks, tests for binomial parameter and process mean, tests for comparing process means, paired data and independent samples.

Course: BS77, IF69

Credit Points: 6

Contact Hours: 3 per week

■ MAP212 STATISTICAL QUALITY CONTROL

Control chart concept; variable charts for location and dispersion, pattern analysis, interpretation. Process capability; natural tolerance, capability index. Modified control charts. Attribute charts; p, c and u charts. Cusum technique; variable data, procedures, V mask, decision interval, application to attribute data. Attribute batch sampling; OC curve, sampling plans (single, double, multiple, sequential), switching rules. Rectifying inspection; Dodge Romig schemes - AOQL, LTPD. Sampling by variables; procedures, sampling plans, inspection rules.

Course: BS77, IF69

Credit Points: 12

Contact Hours: 3 per week

■ MAP222 QUALITY IMPROVEMENT

Flow charts; deployment, layout, top down. Pareto analysis; stratified data, frequency v cost. Cause and effect diagram; dispersion analysis, process classification. Correlation analysis; scattergram, percentage variation explained, several predictors. Affinity diagrams etc. Decision making techniques; brainstorming, multivoting, nominal group technique. Quality improvement teams and quality circles. Quality improvement roadmaps; project identification, improvement plan, strategies, PDCA cycle, 7-step improvement process, team building.

Course: BS77, IF69

Credit Points: 12

Contact Hours: 3 per week

■ MAS090 MATHEMATICS

This intensive unit is aimed at providing an appropriate background for those who may wish to undertake a tertiary course in science, business or other areas which require competence in certain mathematical areas prior to entry. Topics include: algebra, analytical geometry, trigonometry, differential and integral calculus, matrices; statistics. The treatment assumes some initial knowledge of basic algebra, such as manipulation of indices and factorisation, and elementary trigonometry at a level equivalent to Year 10 Advanced Mathematics.

Course: BN10

Credit Points: 6 per semester

Contact Hours: 3 per week

■ MDB300 TEACHING IN THE INFORMATION AGE

The impact of information technology on education; the concept of an information society; how, what is defined as knowledge is contested and changed by information technology; strategies for learning and teaching using information technology. Practical skills using computer hardware and software communication technology and multimedia are developed with a view to appropriate implementation within the curriculum.

Courses: ED37, ED50, ED51, ED52, ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB301 HISTORY OF MATHEMATICS

Different methods that have been used to record numbers; early view of number (fact and fantasy); numeration systems used today; early methods of calculation from ancient times, to Napier's logarithms to the modern computer; contributions of mathematicians including the Greeks, Fibonacci, Pascal, Euler, Gauss, Galois, Fermat, Turing; major historical developments in content areas of geometry, algebra, probability and applications involving measurement.

Courses: ED51, ED52

Prerequisites: First three semesters of the course

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB302 MATHEMATICS FOUNDATIONS

The process of mathematics and the role of mathematics in society; mathematical competencies in a technological world; logic and sets and the various forms of mathematical thinking; basic mathematical structures and properties and how these can be seen within mathematics syllabuses.

Courses: ED51, ED52

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB303 SCIENCE FOUNDATIONS

The development of understanding of significant concepts in science. The nature of science; the historical development of major concepts of science; development of scientific language; relationship of science to society. Links between the view of society and the ideas and knowledge which have been generated and applied to the solution of problems.

Courses: ED51, ED52

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB325 BIOLOGY CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB326 BIOLOGY CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB327 CHEMISTRY CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction

to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB328 CHEMISTRY CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54

Prerequisite: MDB327

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB329 COMPUTING CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54, IT20

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB330 COMPUTING CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED51, ED52, ED54, ED37

Prerequisite: MDB329

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB331 EARTH SCIENCE CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB332 EARTH SCIENCE CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54

Prerequisite: MDB331

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB333 MATHEMATICS CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ MDB334 MATHEMATICS CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** MDB333
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB335 PHYSICS CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB336 PHYSICS CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** MDB335
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB337 SCIENCE CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB338 SCIENCE CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** MDB329
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB339 MATHEMATICS EDUCATION

Key concepts and skills in the domains of percents, rate, ratio, chance and data, pre-algebra and geometry. Focus on developing appropriate teaching episodes within these domains. Special emphasis on the teacher as 'sense-maker'.

Course: ED51 **Prerequisite:** MDB302
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB340 MATHEMATICS & TECHNOLOGY EDUCATION

Builds on the understandings developed in MDB302 and MDB339. Exploration of issues concerned with the teaching of measurement and mathematical problem solving; investigation of how information technology can be used to facilitate the development of high-

level learning skills in mathematics and other areas in the primary school.

Course: ED51 **Prerequisites:** MDB302, MDB339
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB341 SCIENCE EDUCATION

The role of particular psychological, developmental and sociological approaches which play a significant role in science curriculum and development. The process skills and manipulative skills associated with science. Comparison of existing approaches to teaching science. Science development associated with mathematics and language development. Resources for science education. Development and implementation of units of work.

Course: ED51 **Prerequisite:** MDB303
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB342 COMPUTERS IN THE SCHOOL CURRICULUM

Designed to provide teachers with a framework for investigating the present and future influence of computers on curriculum development in educational institutions.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB343 DIAGNOSIS & REMEDIATION IN MATHEMATICS

Overview of numerical and conceptual learning difficulties in mathematics; learning experiences in various areas of mathematics; utility of mathematics in real life situations; examination of mathematics in other curriculum areas; learning experiences in the integration of mathematical topics; use of hand-held calculator and the computer as aids to conceptual development and as practical tools; error analysis and diagnostic inventories; remedial strategies.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB344 INITIATIVES IN SCIENCE EDUCATION

Exploration of alternative practices in science education particularly through the development of research based project work for children, the extended excursion or field trip and involvement in community sponsored and/or related science activities and events.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB345 SOFTWARE DEVELOPMENT FOR EDUCATIONAL CONTEXTS

Algorithmic thinking and its implementation is a major component within the Information processing and Technology syllabus now implemented in secondary schools. Prospective teachers of courses such as these require a sound foundation in the design and development of software along with the use of modern abstract procedural, data and object handling representations. Software design and development is closely bound to particular problems contexts. This unit is based on the design of educational software because this area is relevant to the students concerned and because there is a clear demand for such software. Students in this unit will employ a range of powerful programming techniques and structures in the development of educational computer software.

Course: ED50 **Prerequisite:** CSB860
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB347 EXCURSIONS IN NUMBER

An invitation to explore some interesting byways off the high road of mathematics. Discover some intriguing diversions to add quality to your lessons.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ MDB348 HISTORY OF MATHEMATICS

Methods to record numbers; early view of number (fact and fantasy); numeration systems used today; early methods of calculation from ancient times, to Napier's logarithms to the modern computer; contributions of mathematicians including the Greeks, Fibonacci, Pascal, Euler, Gauss, Galois, Fermat, Turing; major historical developments in content areas of geometry, algebra, probability and modern day applications involving measurement.

Course: ED51, ED52

Prerequisites: First three semesters of the course

Credit Points: 12 Contact Hours: 3 per week

■ MDB349 MATHEMATICAL THINKING

The concept of thinking and intelligence; the nature of mathematical thinking during the first half of this century; modern ideas on the nature of mathematical thinking; the thinking skills movement and programs designed to foster thinking; analysis of children's thinking in solving mathematical problems; analysis of students' 'everyday cognition' together with their thinking in mathematical situations.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ MDB375 COMPUTING TOOLS FOR TEACHERS

The use of writing and publishing software, graphics design software, computer managed learning development tools, numerical software tools, personal and project management tools, communications technologies and computer peripherals used in the production of computer generated materials.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ MDB377 PROJECT PLANNING & IMPLEMENTATION FOR EDUCATIONAL PURPOSES

The study of computing and its application in educational and other environments is very much associated with planned and sequenced implementation of tasks. A study and understanding of how tasks might be represented, sequenced and implemented is essential if technology is to be used effectively in education. The use of project work as a pedagogical technique is a popular strategy to promote independent learning and student autonomy. This unit provides students with a framework to evaluate this methodology.

Course: ED50

Prerequisite: MDB375

Credit Points: 12 Contact Hours: 3 per week

■ MDB378 EARTH & SPACE

Examination of scientific concepts in important areas of space, time and motion, the origin and history of earth and its environments. Scientific principles and techniques for observing space and earth phenomena are investigated. Strategies for incorporating this knowledge in teaching settings.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ MDB379 SCIENCE & SURVIVAL

Examination of a range of scientific concepts in the area of matter and energy and how these concepts are applied in a technological context. On a broader horizon the scientific principles underlying major innovations, disasters and controversial issues are examined. Strategies for incorporating this knowledge in a teaching situation.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ MDB380 TECHNOLOGY & LIFE SCIENCE

The interaction of organisms and their physical environment; the human influence in the biosphere; how technology empowers communities to exploit and/or protect biological systems and the integrity of the earth as humanity experiences it today. This unit focuses on the use of instrumentation and technology in the area of science research in the life sciences and investigates how this technology can be adapted to practice in primary classrooms.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ MDB381 SCIENCE AND TECHNOLOGY IN THE COMMUNITY AND WORKPLACE

Development of an awareness of how science and technology pervade most aspects of our daily lives in communities and workplaces. The implications of a rapidly changing scientific and technological base of industry; increasing involvement of the public in national and international decision-making; the need for a scientifically literate society. Practical exercises and projects are also undertaken.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ MDB382 PROBLEM SOLVING, CRITICAL THINKING AND FUTURING

Reviews state-of-the-art concepts and practices from problem solving, critical thinking, and futuring knowledge bases which have practical applications in the adult education and human resource development field. Participants may enhance their professional effectiveness in performing administrative, instructional, and program development responsibilities through modern practice.

Course: ED54

Credit Points: 12 Contact Hours: 3 per week

■ MDB410 COMPUTERS IN THE SCHOOL CURRICULUM

The introduction of computers into the school environment and curriculum; methods for teaching computer studies; the use of computers for classroom management and support; computer technology and its impact on schools and society. Access to an appropriate microcomputer is required.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB411 EARLY CHILDHOOD MATHEMATICS CURRICULUM

Theoretical background and research; logical sequence of mathematics and children's cognitive development; content and learning experiences for early childhood; integration and application.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB440 COMPUTERS & EDUCATION

An overview of microcomputer hardware and software with an emphasis on the usefulness of various components in schools; use of educationally valuable application software; critical examination of a variety of uses of computers in education; the impact of computers on society and education in particular.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB442 QUANTITATIVE LITERACY

The importance of quantitative literacy in our society; its development through learning and teaching; its social context and the role of technology.

Courses: ED26, ED62

Credit Points: 12 Contact Hours: 3 per week

■ MDB444 SCIENCE CURRICULUM

Review of direction for science education nationally and globally; critical evaluation of current practice and curricula; review of how students learn science with reference to current research; application of these principles to changes in curriculum and teaching strategies; design implementation and evaluation of curriculum change.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB445 TEACHING PROBLEM SOLVING & REASONING

Problem solving in the curriculum, strategies, logic and reasoning, the planning and teaching of problem-centred curricula; the use of technology in problem solving.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB446 SCIENCE FOR EARLY CHILDHOOD

Science for young children; theoretical background of science education; development of process and manipulative skills; the role of the teacher in a child centred science curriculum.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDB447 MATHEMATICS CURRICULUM

Recent developments in the teaching and learning of mathematics; identification of effective curriculum models and teaching strategies for mathematics; understanding the content of school mathematics; developing and evaluating curriculum applications.

Courses: ED26

Credit Points: 12 Contact Hours: 3 per week

■ MDN615 CURRICULUM STUDIES IN MATHEMATICS, SCIENCE OR TECHNOLOGY EDUCATION

A study of curriculum in one of the major areas of study in mathematics, science, or technology education. Examples of topics to be addressed include: curriculum theory and design: intended, developed and enacted curriculum; curriculum implementation and evaluation; historical considerations; current curriculum considerations.

Courses: ED13, ED61

Credit Points: 12

■ MDN616 PEDAGOGY IN MATHEMATICS, SCIENCE OR TECHNOLOGY EDUCATION

The various factors that determine the effectiveness of the mathematics, science and technology learning environments. Factors considered include, the role of the teacher, learning theories, social context. The units achieves a balance between theoretical considerations and practical experience of the participants.

Courses: ED13, ED61 Prerequisites: EDN601

Credit Points: 12

■ MDN619 TECHNOLOGICALLY SUPPORTED LEARNING AND TEACHING ENVIRONMENTS

Computer-based software, equipment and educational settings as technological environments; models of interpreting technological environments; historical perspective of learning/teaching technologies; design of technological environments.

Courses: ED13

Credit Points: 12

■ MDN620 STUDENT EVALUATION IN MATHEMATICS/SCIENCE/TECHNOLOGY EDUCATION: ASSESSMENT & INTERVENTION

The major theoretical issues in assessment in math-

ematics, science and technology education. The role of assessment and intervention is discussed and expertise is developed in planning of assessment instruments and in their evaluation.

Courses: ED13, ED11

Credit Points: 12

■ MDN621 MATHEMATICAL AND SCIENTIFIC REASONING

Recent theories and research in cognitive psychology and their application to mathematics and science education. Topics of study include the nature of mathematical and scientific knowledge and understanding, cognitive complexity, analogical reasoning, and problem solving and thinking in mathematics and science. The unit develops students' understanding of these issues so that they might apply this to their own teaching and research.

Courses: ED13, ED11

Prerequisites: EDN601

Co-requisites: MDN616

Credit Points: 12

■ MDP401 JUNIOR SCIENCE CURRICULUM STUDIES 1

Development of basic proficiencies in teaching Junior Science. The unit is based upon current theories of learning and models of science education; laboratory safety and management.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ MDP402 JUNIOR SCIENCE CURRICULUM STUDIES 2

See MDP401. The opportunity to extend expertise with respect to a wide range of teaching strategies and learning contexts.

Course: ED37

Prerequisite: MDP401

Credit Points: 12

Contact Hours: 3 per week

■ MDP403 MATHEMATICS CURRICULUM STUDIES 1

A foundation for the planning and implementation of mathematics instruction; learning theories; practical curriculum planning; school syllabuses and programs in mathematics are examined.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ MDP404 MATHEMATICS CURRICULUM STUDIES 2

See MDP403.

Course: ED37

Prerequisite: MDP403

Credit Points: 12

Contact Hours: 3 per week

■ MDP405 COMPUTER EDUCATION CURRICULUM STUDIES 1

The broad issues of computer curricula; specific computer units in secondary schools, syllabus analysis, work program development. Management of computer studies and computer education in a school.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ MDP406 COMPUTER EDUCATION CURRICULUM STUDIES 2

Analysis of topics in computer studies programs, learning computer studies, assessment, teaching strategies, classroom management. Work unit development.

Course: ED37

Prerequisite: MDP406

Credit Points: 12

Contact Hours: 3 per week

■ MDP407 SENIOR SCIENCE CURRICULUM STUDIES 1

The opportunity to develop basic proficiencies in teaching a senior science subject; teaching strategies which foster the development of complex reasoning and skill development.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ MDP408 SENIOR AGRICULTURE CURRICULUM STUDIES 2

Offers students the opportunity to extend expertise with respect to this particular discipline. Emphasis is placed on current issues in the discipline and teaching strategies which allow these issues to be freely discussed in the classroom.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP409 SENIOR BIOLOGY CURRICULUM STUDIES 2

See MDP408.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP410 SENIOR CHEMISTRY CURRICULUM STUDIES 2

See MDP408.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP411 SENIOR EARTH SCIENCE CURRICULUM STUDIES 2

See MDP408.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP412 SENIOR MARINE STUDIES CURRICULUM STUDIES 2

See MDP408.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP413 SENIOR PHYSICS CURRICULUM STUDIES 2

See MDP408.

Course: ED37 Prerequisite: MDP407
Credit Points: 12 Contact Hours: 3 per week

■ MDP450 MATHEMATICS, SCIENCE & TECHNOLOGY 1

The contexts of learning and processes by which effective mathematics/science learning takes place; the nature of mathematics/science and the rationale for mathematics/science education; theoretical constructs of curriculum development; approaches to teaching; key concepts and processes; technology in mathematics/science teaching.

Course: ED36
Credit Points: 12 Contact Hours: 3 per week

■ MDP451 MATHEMATICS, SCIENCE & TECHNOLOGY 2

Application of key concepts and processes in mathematics/science; concepts and processes studied in Semester 1 transferred to other mathematics/science topics; development of teaching episodes incorporating the concepts and processes. Assessment and evaluation; difference between assessment and evaluation; nature and types of assessment/evaluation. Child study: student selects child and mathematics/science topic to assess; develop instruments for assessment; analyse child's performance; develop individual program to cater for child's individual mathematical/scientific needs.

Course: ED36 Prerequisite: MDP450
Credit Points: 12 Contact Hours: 3 per week

■ MDP503 INFORMATION SYSTEMS IN EDUCATION

Explores some of the characteristics and applications of information systems in an educational context. How information is modelled, stored and retrieved using relational database techniques; the impact on society of the use of information systems; the pedagogies

associated with teaching about and using information systems in schools are explored.

Course: ED21

Credit Points: 12 Contact Hours: 3 per week

■ MDP504 SCHOOL ADMINISTRATION USING INFORMATION TECHNOLOGY

The use of information technologies in the administration of schools; explores a range of administrative packages; cost benefits and ethical implications.

Course: ED21 Prerequisites: MDP532 or MDP530
Credit Points: 12 Contact Hours: 3 per week

■ MDP506 COMPUTER EDUCATION PROJECT

Offers students the opportunity to extend expertise gained in other units in the Graduate Diploma in Education (Computer Education). Under supervision students select a problem relevant to computer education and implement a solution.

Course: ED21

Credit Points: 12 Contact Hours: 3 per week

■ MDP507 TEACHING SECONDARY COMPUTER STUDIES

Investigates and develops the pedagogy and management associated with computer studies courses currently implemented in Queensland Secondary schools. Emphasis is given to the Information Processing and Technology syllabus and the Practical Computer Methods syllabus.

Course: ED21 Prerequisites: MDP503, MDP532
Co-requisite: MDP537

Credit Points: 12 Contact Hours: 3 per week

■ MDP508 COMPUTER USE IN THE PRIMARY CURRICULUM

Examines the extent to which computers may be used to teach problem solving in the primary classroom through a study of Logo, adventure games, simulations, and genuine problem solving software. In addition, the use of popular software tools as aids to teaching and learning is considered.

Courses: ED21, ED70

Prerequisites: MDP537 or MDP532 or MDP530

Credit Points: 12 Contact Hours: 3 per week

■ MDP520 THINKING & LEARNING IN MATHEMATICS & SCIENCE

Concepts of thinking, learning and intelligence; modern theories on mathematical and scientific thinking; methods to promote thinking; designing effective mathematics and science learning experiences.

Courses: ED22, ED62, ED74

Credit Points: 12 Contact Hours: 3 per week

■ MDP529 ASSESSMENT & REMEDIATION IN MATHEMATICS

Overview of numerical and conceptual learning difficulties in mathematics; learning experiences in various areas of mathematics; utility of mathematics in real life situations; examination of mathematics in other curriculum areas; learning experiences in the integration of mathematical topics; use of hand-held calculator and the computer as aids to conceptual development as practical tools; geometric and algebraic concepts across the curriculum; error analysis and diagnostic inventories; remedial strategies.

Courses: ED24, ED75

Credit Points: 12 Contact Hours: 3 per week

■ MDP530 COMPUTER APPLICATIONS IN EDUCATION

Allows students to gain technological skills and understanding while investigating applications of these

technologies in the context of teaching and learning. A wide range of computer applications will be covered including writing, publishing, graphics, communications and project management tools.

Courses: ED21, ED70

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: MDP505

■ MDP531 INVESTIGATIONS INTO COMPUTER AIDED LEARNING

The use of interactive technology in the teaching/learning process; approaches to and uses of computer aided learning, hypermedia authoring systems such as Hypercard, Linkways and Toolbook, and their applications in multimedia environments.

Course: ED21

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP532 COMPUTER SYSTEMS IN AN EDUCATIONAL CONTEXT

An introduction to educational computer systems; it includes a study of problem solving using computers, the architectures of computer systems, operating systems and an introduction to computer programming using appropriate educational languages.

Courses: ED21, ED26

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: MDP501

■ MDP533 TEACHING INFORMATION SYSTEMS MODELLING

Designed for prospective teachers of information system modelling; explores the pedagogies and approaches appropriate for teaching students at a variety of levels including a secondary school environment; development and writing of specification documents for information system implementation within an educational context; tools such as relational languages and CASE used by students to implement small educational information systems.

Course: ED21

Prerequisite: MDP503

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: MDP509

■ MDP534 EDUCATIONAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE

Artificial Intelligence as a discipline impacting on education, philosophical issues, and methods used in AI; focuses particularly on AI applications which cross broad areas of the school curriculum; provides appropriate curriculum support for teachers of the AI topic within the Information Processing and Technology unit at a secondary school level.

Course: ED21

Prerequisite: MDP535

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: CSP842

■ MDP535 EDUCATIONAL SOFTWARE DEVELOPMENT

Data, procedural and object-orientated abstractions used in conjunction with modular programming practices. These understandings are used to solve problems from a wide range of practical educational applications especially with respect to the development of educational software.

Course: ED21

Prerequisite: MDP532

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: CSP837

■ MDP536 COMPUTER GRAPHICS IN TEACHING

The use of computer graphics to enhance teaching and learning in a school environment. A problem solving approach is employed and students are given the opportunity to apply what they are learning to their own

curriculum areas.

Courses: ED21, ED70

Prerequisites: MDP532 or MDP530

Credit Points: 12

Contact Hours: 3 per week

Incompatible with: CSP843

■ MDP537 MAJOR ISSUES IN COMPUTER EDUCATION

The application and implication of the use of information technologies in an educational environment; the impact of teaching, learning and the curriculum.

Courses: ED21, ED70

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: MDP502

■ MDP540 MATHEMATICS FOR SCHOOLS

Development of mathematical ideas and thinking over the school years; mathematical structure, functions, transformations, modelling and problem solving as they pertain to the school curriculum.

Courses: ED22, ED62

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP541 SCIENCE FOR SCHOOLS

The study of scientific themes and their application to the school classroom; unity and diversity, change, matter energy, interrelationships.

Courses: ED22, ED74

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP542 HISTORY OF MATHEMATICS & SCIENCE

Selected topics are studied in depth – number, systems, algebra, astronomy, energy and matter.

Courses: ED22, ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP543 CURRICULUM SPECIALISATION IN MATHS & SCIENCE

Recent trends in mathematics and/or science teaching and learning; development of teaching and learning experience for school students.

Courses: ED22, ED62, ED74

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP544 LEADERSHIP IN MATHS & SCIENCE EDUCATION

Current development in mathematics and/or science education, government reports; models of adult training; processes for formulating and evaluating programs and elements of management and supervision as they relate to curriculum development and in-service training.

Course: ED22

Credit Points: 12 **Contact Hours:** 3 per week

■ MDP545 EXCEPTIONALITY IN MATHEMATICS & SCIENCE

The identification and assessment of exceptional children of both extremes in the context of a mathematics and science classroom; planning of appropriate intervention for learning disabled, physically disabled as well as for gifted and talented children in the regular classroom.

Courses: ED22, ED62, ED74

Credit Points: 12 **Contact Hours:** 3 per week

■ MEB010 DYNAMICS 1

Modelling methods and analysis; motion of relevant machines and mechanisms; fluids, transmissions and methods of measurement.

Course: BN30

Credit Points: 4 **Contact Hours:** 2 per week

■ MEB012 DYNAMICS 2

Application of modelling techniques on machines and

mechanisms; unbalanced forces in rotating bodies and gyroscopic effects; vibration; interaction of fluids and methods of measurement.

Course: BN30

Prerequisite: MEB010

Credit Points: 4

Contact Hours: 2 per week

■ MEB031 MATERIAL TECHNOLOGY

A structure property approach to orthotic materials; plastics; rubber; metals; composites; failure modes; strength; creep; fatigue; resilience; selection procedures.

Course: PU45

Credit Points: 8

Contact Hours: 2 per week

■ MEB035 SAFETY TECHNOLOGY 1

The importance and relevance of safety in the workplace; analysis of the accident process; hazards with machinery and materials failure.

Course: PU44

Credit Points: 8

Contact Hours: 3 per week

■ MEB101 DESIGN 1

Mechanical design: power transfer; V-belt drives; chain drives; gear drives; machine components.

Courses: IF56, ME45

Prerequisites: CEB184, MEB121

Co-requisites: CEB185, MEB111, MEB133

Credit Points: 8

Contact Hours: 3 per week

■ MEB111 DYNAMICS

The principles of dynamics; kinetics of particles and systems of particles in plane motion; coordinate systems; relative motion; various methods for the solution of mechanisms; freebody diagrams; work-energy equations; impulse; momentum and impact.

Courses: EE43, EE44, IF53, ME23, ME35, ME45, ME46

Prerequisite: MAB187

Credit Points: 7

Contact Hours: 3 per week

■ MEB121 ENGINEERING GRAPHICS

Principles of geometric drawing; orthographic projection; auxiliary views; sectioning; component detailing; surface developments; assembly drawing; CAD.

Courses: CE42, EE43, EE44, IF53, ME45, ME46, PS47, IF54

Credit Points: 6

Contact Hours: 3 per week

■ MEB133 MATERIALS

Bonding; thermodynamics of solids; state and phase changes; defects; elasticity, plasticity and fracture; recovery diffusion; recrystallisation; hot and cold deformation; creep and fatigue mechanisms; heat treatment. Alloying and strengthening in metals, polymers and ceramics.

Courses: CE42, EE43, EE44, IF56, ME45, ME46

Credit Points: 6

Contact Hours: 3 per week

■ MEB171 INTRODUCTION TO MANUFACTURING

Manufacturing in the Australian economy; modern concepts in manufacturing systems design: the interrelationship between design, materials selection, manufacturing processes, marketing and information processing of products; choice of manufacturing technologies in relation to product quantity and quality.

Courses: CE42, EE43, EE44, ME45

Credit Points: 2

Contact Hours: 1 per week

■ MEB173 MANUFACTURING PRACTICE

Manufacturing in world and Australian contexts; concept of manufacturing systems; conventional and non-traditional manufacturing technology; introduction to value analysis, product design and material selection; tolerancing and metrology; total quality control.

Course: IF56

Credit Points: 8

Contact Hours: 3 per week

■ MEB190 ENGINEERING IN THE MEDICAL ENVIRONMENT

Overview of health system in Australia; clinical disciplines within medicine; medical terminology; history of health technology; health technology from an engineering perspective; case studies.

Course: ME46

Credit Points: 6

Contact Hours: 3 per week

■ MEB191 UNIX & C

Unix operating system and its use as an engineering work station operating system; use of the editor; the C language: expressions, statements, input/output, functions, arrays and pointers and the use of storage classes, string functions and data forms; engineering problems using C.

Course: ME46

Credit Points: 4

Prerequisite: CSB191

Contact Hours: 2 per week

■ MEB200 INDUSTRIAL EXPERIENCE 1

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form completed by both student and the employer.

Course: ME45

Contact Hours: 5 weeks

■ MEB212 MECHANICS OF SOLIDS

Concepts of stress, strain and elasticity; analysis of stress and strain; stresses in simple beams; torsion of circular shafts; stresses in thin-walled pressure vessels; strain measurement and strain gauging.

Courses: IF56, ME45

Prerequisite: CEB184

Credit Points: 6

Contact Hours: 3 per week

■ MEB221 ENGINEERING SCIENCE 1

Statics: forces in equilibrium; resolution of forces; friction; inertia and change of motion: application to connected bodies; dynamics of rotation; centripetal force; the hoist; periodic motion; balancing; work and energy; impulse and momentum; introduction to fluids at rest and in motion.

Course: IF54, PS47

Prerequisite: MAB188

Co-requisite: PHB172

Credit Points: 6

Contact Hours: 3 per week

■ MEB230 MATERIALS 2

Solidification of ingots and castings; segregation; defects; properties of cast iron; steel and nonferrous alloys. Properties of welded materials; arc characteristics; metal transfer; thermal diffusivity; cooling rates and transformations; carbon equivalents; hot and cold cracking; residual stresses and dilution effects. Properties of wrought materials; strain hardening; anisotropy, preferred orientation; defects; toughness. Microstructures and properties of high strength low alloy steels. Important nonferrous alloys.

Courses: IF53, ME35, ME45

Prerequisite: MEB133

Credit Points: 6

Contact Hours: 3 per week

■ MEB231 MATERIALS 3

The structure and properties of polymers; composites and modern engineering ceramics; stress transformations; fibre and matrix properties; fibre density and orientation; rule of mixtures; modern engineering polymers; properties and applications; fracture toughness of polymers, ceramics and metals; linear elastic fracture mechanics; application to static and dynamic forces such as fatigue and stress corrosion cracking.

Courses: IF53, ME45, ME46

Prerequisite: MEB133

Credit Points: 6

Contact Hours: 3 per week

■ MEB250 THERMODYNAMICS 1

Basics of engineering thermodynamics; reversibility; first and second laws of thermodynamics; applications to heat engines; compressors; engine testing; emphasis on single phase systems; field visit.

Courses: IF53, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

■ MEB251 THERMODYNAMICS 2

Steam plant; impulse and reaction turbines; gas turbines; refrigeration; field visit.

Courses: IF53, ME35, ME45

Prerequisite: MEB250

Credit Points: 6 Contact Hours: 3 per week

■ MEB270 INDUSTRIAL EXPERIENCE 1

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form completed by both the student and the employer.

Course: IF53 Contact Hours: 5 weeks

■ MEB300 INDUSTRIAL EXPERIENCE 2

See MEB270.

Course: ME45 Contact Hours: 5 weeks

■ MEB313 MECHANICS 1

Kinematic and dynamic analysis of linkages and mechanisms; linkage synthesis applied to spatial mechanisms and robotics; the design and synthesis of cams; kinematic analysis of gears.

Courses: IF53, ME35, ME45, ME46

Prerequisites: CEB184, CEB185, MAB183 or MAB187, MEB111

Credit Points: 6 Contact Hours: 3 per week

■ MEB314 MECHANICS 1

Kinematic and dynamic analysis of planar linkages and mechanisms; link synthesis and its application to the design of mechanisms; determination of static and dynamic forces and torques due to inertia and other effects in mechanisms; balancing; design and synthesis of cams with specified motion using graphical and analytical methods; kinematic analysis of spur gears in mechanisms.

Courses: IF56, ME31, ME45

Prerequisites: CEB184, MEB111

Credit Points: 8 Contact Hours: 4 per week

■ MEB333 BIOMATERIALS

Characterisation of materials; metallic, ceramic, polymeric implant materials; composites as biomaterials; structure-property relationships of biomaterials; tissue response to implants; soft tissue replacements; hard tissue replacements; transplants.

Course: ME46 Prerequisite: MEB133

Credit Points: 8 Contact Hours: 3 per week

■ MEB334 MATERIALS 2

Introduction to fracture mechanics; plastic zone size and limitation of linear elastic fracture mechanics (LEFM); application of LEFM to static design, stress corrosion cracking, and fatigue crack growth; characteristics of polymers and composites; review of engineering ceramics.

Courses: IF56, ME35, ME45

Prerequisite: MEB133

Credit Points: 8 Contact Hours: 4 per week

■ MEB352 THERMODYNAMICS 1

Basics of engineering thermodynamics; reversibility; first and second laws of thermodynamics; liquid, vapour and gas; reversible non-flow processes; heat engine cycles; positive displacement expanders and

compressors; multi-stage compressors; engine performance testing.

Courses: IF56, ME45

Credit Points: 8 Contact Hours: 4 per week

■ MEB361 FLUIDS 1

Fluid mechanics; forces in a fluid at rest and its action on submersed and floating bodies; manometry; pressure distribution in a liquid subjected to acceleration; different types of flow; momentum and energy equations; flow through orifices and vortex flow.

Courses: IF53, ME45, ME46

Prerequisites: MAB193, MEB111, PHB132

Credit Points: 6 Contact Hours: 3 per week

■ MEB362 THERMO-FLUIDS

Fluid properties; forces on fluids at rest; definition and applications of the continuity equation, the momentum equation and the energy equation; isentropic compressible flow including boundary layer effects; first and second laws of thermodynamics.

Course: EE43

Credit Points: 6 Contact Hours: 3 per week

■ MEB363 FLUIDS 1

Fluid properties; forces on a fluid at rest; manometry; fluid pressure on submersed bodies; states of equilibrium; fluid flow; fluid flow and pressure drop in pipes; power transmission through pipelines; momentum and fluid flow; energy equation and fluid flow; applications of the momentum and energy equations; branching pipes.

Courses: IF56, ME45

Prerequisites: CEB184, PHB132, MAB188

Credit Points: 8 Contact Hours: 4 per week

■ MEB370 MANUFACTURING SYSTEMS 1

Practical machining principles; mechanics of chip formation; speeds and feeds selection; practical applications in metrology; numerical control and parts programming; processing of plastics.

Courses: ME45, ME46

Prerequisite: MEB171

Credit Points: 6 Contact Hours: 3 per week

■ MEB381 DESIGN 2

Methodology for mechanical design: design of machine elements; design for strength and fatigue; computer aided design.

Courses: ME45

Prerequisites: CEB184, CEB185, MEB101, MEB121

Co-requisite: MEB313

Credit Points: 8 Contact Hours: 3 per week

■ MEB402 INDUSTRIAL EXPERIENCE 3

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form completed by both the student and the employer.

Course: ME45 Contact Hours: 5 weeks

■ MEB408 PROJECT 1

Investigate and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Course: ME45

Prerequisite: MEB502

Co-requisite: MEB489

Credit Points: 14 Contact Hours: 6 per week

■ MEB409 PROJECT 2

Investigate and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Course: ME45

Prerequisite: MEB502

Co-requisite: MEB489

Credit Points: 7 Contact Hours: 3 per week

■ MEB411 THEORY OF MACHINES

Balancing of mechanisms and rotors; gyroscopic effects in mechanisms, rotors and vehicles; gear trains, simple and epicyclic; friction and centrifugal devices such as clutches and governors.

Course: ME45

Prerequisites: CEB184, CEB185, MEB111

Credit Points: 7 Contact Hours: 3 per week

■ MEB430 MATERIALS 3

Nucleation and growth phenomena in commercial materials; structure-property relationships and design considerations; welding of structural and joining materials; review of structure-property relationships in wrought alloys; engineering properties of steels.

Courses: ME45

Prerequisite: MEB133

Credit Points: 8 Contact Hours: 4 per week

■ MEB450 AIR CONDITIONING

Psychrometry; cooling load calculations; air conditioning systems; vapour compression refrigeration cycle analysis; multipressure systems; absorption refrigeration; field visit.

Courses: ME35, ME45, ME46

Prerequisites: MEB251, MEB462

Co-requisite: MEB550

Credit Points: 8 Contact Hours: 3 per week

■ MEB454 AERODYNAMICS 1

Incompressible airflow around bluff bodies and aerofoils and in a tube of varying cross-sections; stalling of aerofoils; variations with angle of attack of lift, pressure, pitching moment and drag coefficients; the influence of Reynold's Number including the effect of boundary layers, turbulent and laminar; high lift devices and fuselage effect; planform effects; aircraft layouts such as canards and delta wings.

Course: EE43

Prerequisite: MEB362

Credit Points: 8 Contact Hours: 3 per week

■ MEB455 THERMODYNAMICS 2

Steam plant; nozzles; impulse and reaction turbines; gas turbines; mixtures; refrigeration; chemistry of combustion.

Courses: ME35, ME45

Prerequisite: MEB352

Credit Points: 8 Contact Hours: 4 per week

■ MEB462 FLUIDS 2

Fluid flow in closed conduits; rotodynamic machines; hydraulic transmissions; water hammer in pipes; dimensional analysis and dynamic similarity.

Courses: IF53, ME35, ME45

Prerequisite: MAB193

Co-requisites: MEB361, MAB493

Credit Points: 6 Contact Hours: 3 per week

■ MEB463 TRIBOLOGY

The fundamentals of tribology; specification and measurement of surface roughness; lubrication modes; lubricants; wear modes; bearing design; lubrication of machine elements; seals.

Courses: IF53, ME35, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

■ MEB464 FLUIDS 3

Boundary layer theory; viscous flow via the Navier-Stokes and Reynold's equations; isentropic compressible flow; normal and oblique shock waves.

Course: ME45 Prerequisites: MAB893, MEB462

Credit Points: 7 Contact Hours: 3 per week

■ MEB465 BIOFLUIDS

Continuity of flow; viscosity and its measurement; Newton's law of measurement; non-Newtonian fluids; Navier-Stokes equations of motion; Eulerian and

Lagrangian descriptions of flow; boundary layer theory; dimensional similarity; rheology and rheological models; rheology of biofluids; hemodynamics; artificial pumps, valves and pacers for biofluid systems; anaesthesia machines; blood flow meters; heart-lung by-pass machines.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ MEB470 INDUSTRIAL EXPERIENCE 2

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form completed by both the student and the employer.

Course: IF53

Contact Hours: 5 weeks

■ MEB471 MANUFACTURING ENGINEERING 1

Practical machining principles and mechanics of chip formation; economics of machining; practical applications in metrology; NC part programming.

Course: IF53

Credit Points: 6 Contact Hours: 3 per week

■ MEB472 MANUFACTURING SYSTEMS 2

Fundamentals and applications of plasticity theory in the deformation of metals and plastics; concepts and applications of non-traditional machining and forming processes; introduction to automation and advanced manufacturing techniques.

Courses: ME35, ME45, ME46

Prerequisite: MEB370

Credit Points: 6 Contact Hours: 3 per week

■ MEB473 MANUFACTURING ENGINEERING 1

Practical machining principles; cutting tools and cutting tool materials; analysis of tool wear and tool life; introduction to CNC technology and CNC part programming; types of welding processes; grinding and non-traditional material cutting processes; principles of metrology.

Courses: IF56, ME45, ME46

Credit Points: 8 Contact Hours: 4 per week

■ MEB483 DESIGN 3

Design of mechanisms; welded structures; flexible components; journal bearings; computer aided design.

Courses: IF53, ME45

Prerequisites: CEB102, CSB191, MEB111, MEB133, MEB381

Co-requisites: MEB231, MEB313, MEB411

Credit Points: 8 Contact Hours: 3 per week

■ MEB484 BIOENGINEERING DESIGN 1

Introduction to design methodology and problem solving; risk and safety factors in design; types of bearing and bearing selection; design of beams and shafts; type and choice of gear mechanisms; human factors engineering; psychological factors in design of displays; bioengineering applications of design theory.

Course: ME46

Prerequisites: CEB185, MEB121

Credit Points: 8 Contact Hours: 3 per week

■ MEB489 MECHANICAL DESIGN PROJECT

A team approach to design: projects from University or industry; application of theoretical and practical design principles; design, draw and supervise manufacture of project; presentation of formal report.

Course: ME45

Prerequisites: MEB483, MEB511, MEB610, MEB773

Co-requisites: MEB772, MEB911

Credit Points: 14 Contact Hours: 3 per week

■ MEB490 PROJECT

Investigation and analysis of technological or managerial problem in medical engineering and presentation of a written report.

Course: ME46

Credit Points: 16 Contact Hours: 3 per week

■ MEB500 SPECIAL TOPIC 1

A series of lectures and tutorials in areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

Courses: IF53, ME45

Prerequisites: Students to have achieved an appropriate level of preparation in topic area concerned.

Co-requisites: Depend on the syllabus of the particular special topic offered.

Credit Points: 8 Contact Hours: 3 per week

■ MEB501 PROJECT

A survey of relevant literature and organised experimental work resulting in conclusions presented in a formal report.

Course: ME35

Credit Points: 16 Contact Hours: 3 per week

■ MEB502 RESEARCH METHODS

The project exposes students to self-regulated, supervised research on a specified topic associated with materials or manufacturing engineering. Survey of relevant literature and organised experimental work resulting in conclusions presented in a formal report.

Course: ME45 Prerequisites: MEB230, MEB231

Credit Points: 8 Contact Hours: 4 per week

■ MEB510 NOISE & VIBRATIONS

Introduction to noise and vibration measurements and instruments; free and forced vibration; normal mode vibration; Holzer's method; Mykelstad's method; noise levels; A-weighting; leq; SEL; noise dose and standards; sound power; absorption; the behaviour of sound relating to rooms, enclosures and partitions.

Courses: IF53, ME45

Prerequisites: MAB493, PHB132

Co-requisite: MAB893

Credit Points: 7 Contact Hours: 3 per week

■ MEB511 STRESS ANALYSIS

Analysis of strain and stress; strain-displacement relations; stress and strain transformation; two-dimensional problems including curved bars, thick-walled cylinders and rotating discs; tension of prismatic bars and thin-walled sections; failure criteria and their applications; experimental strain measurement.

Courses: ME45, ME46

Credit Points: 7 Contact Hours: 3 per week

■ MEB512 NOISE AND VIBRATIONS

Introduction to acoustics; noise levels, frequency and duration; sound power level; free and reverberant field; free and forced vibration and vibration absorption; torsion vibration; Holzer's method.

Prerequisites: PHB132, MAB493, MEB111

Credit Points: 8 Contact Hours: 4 per week

■ MEB513 STRESS ANALYSIS

Stress and strain in three-dimension; strain-gauge rosette analysis; two-dimensional problems; axisymmetrically loaded problems; torsion of non-circular section; introduction to plates.

Prerequisites: First Year Subject, MEB212, MAB493

Credit Points: 8 Contact Hours: 4 per week

■ MEB531 ADVANCED MATERIALS

Properties and applications for modern advanced

composites; fibre reinforcements of ceramic, metal and polymer materials. Coatings of metals and ceramics by vapour deposition; plasma and advanced techniques. Surface treatments for frictional and wear performance. Properties of ultra high strength steels.

Courses: IF56, ME45, ME46

Prerequisites: MEB230, MEB231

Credit Points: 8 Contact Hours: 3 per week

■ MEB550 HEAT TRANSFER

Conduction: steady-state, one and two-dimensions, unsteady-state; convection: boundary layers, forced, natural and radiation black and grey bodies, shape factors.

Courses: ME35, ME45, ME46

Credit Points: 6 Contact Hours: 3 per week

■ MEB551 PROPULSION & ENGINES

Piston engines; superchargers and carburettors; actuator disc theory of propellers and rotary wing aircraft; gas turbine engines; compressors; turbines; ignition systems; fuel control systems and afterburners; rocket motors; fuels and thrust calculations.

Course: EE43

Prerequisite: MEB362

Credit Points: 8 Contact Hours: 3 per week

■ MEB553 AERODYNAMICS 2

Transonic and supersonic flows; critical Mach numbers; quasi one-dimensional stationary current equations; shock waves, compressional and expansional; linear flow around aerofoil sections; convergent divergent nozzles; qualitative study of flow around differing wing areas and shape; climb, cruise, descent, take off and landing calculations.

Courses: EE43

Prerequisite: MEB454

Credit Points: 6 Contact Hours: 3 per week

■ MEB554 HEAT TRANSFER

Conduction and convection heat transfer; overall heat-transfer coefficient; viscous and inviscid flow; boundary layers; empirical and practical relations for forced-convection heat transfer; natural-convection systems; radiation heat transfer; condensing and boiling; heat exchangers.

Credit Points: 8 Contact Hours: 4 per week

■ MEB571 MANUFACTURING ENGINEERING 2

Fundamentals and applications of plasticity theory in the deformation of metals and plastics; forming machine performance and selection of machine tools.

Course: IF53

Credit Points: 6 Contact Hours: 3 per week

■ MEB572 MANUFACTURING ENGINEERING 2

Introduction to metalworking principles; hot and warm forging operations; extrusion operation; flat rolling operation; deep drawing operation; shearing/blanking operation; spinning operation; non-traditional metal forming operations; die/moulds in manufacturing processes; introduction to casting of ferrous and non-ferrous metals and alloys; shrinkage and porosity; fluid flow and design considerations in casting.

Course: IF56

Credit Points: 8 Contact Hours: 4 per week

■ MEB580 BIOENGINEERING DESIGN 2

Effect of manufacturing processes on material properties and product design; manufacturing tolerances; computer-aided design and solid modelling; effect of computer-aided manufacturing on component design; rapid prototyping techniques; use of prototypes in manufacturing; reverse engineering by non-invasive techniques; design/testing/prototyping/production

cycle; application of design for manufacturing of bio-engineering devices.

Course: ME46

Prerequisite: MEB484

Credit Points: 8

Contact Hours: 3 per week

■ MEB600 INDUSTRIAL EXPERIENCE 3

Students should engage in at least five weeks employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form completed by both the student and the employer.

Course: IF53

Contact Hours: 5 weeks

■ MEB601 SPECIAL TOPIC 2

A series of lectures and tutorials in unit areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

Courses: IF56, ME45, ME46

Prerequisites: Students require an appropriate level of preparation in the topic area concerned.

Co-requisites: Depend on the syllabus of the particular special topic offered.

Credit Points: 8

Contact Hours: 3 per week

■ MEB610 MECHANICS 2

Introduction to mechanical frames and methods of analysis; investigation of the effects of static and dynamic loading upon frames and frame members.

Course: ME45

Prerequisites: MAB493, MEB411, MEB510

Co-requisite: MEB511

Credit Points: 6

Contact Hours: 3 per week

■ MEB611 STABILITY & CONTROL OF AIRCRAFT

Equations of motion; longitudinal, lateral and directional stick fixed and stick free control and stability; manoeuvring flight; use of aerodynamic coefficients without derivation; control system modelling.

Course: EE43

Prerequisite: MEB553

Credit Points: 8

Contact Hours: 3 per week

■ MEB612 MECHANICAL MEASUREMENTS

Stress and strain; force, torque and power measurements; vibration measurements; pressure and sound measurements; flow measurements; data transmission and recording.

Course: ME35

Credit Points: 8

Contact Hours: 3 per week

■ MEB613 MECHANICS 2

Analysis of two-dimensional frames; small curvature beam theory; analysis of compression members; introduction to energy methods; introduction to matrix methods; free and forced vibration; damped vibration; energy methods in vibration analyses.

Credit Points: 8

Contact Hours: 4 per week

■ MEB640 AUTOMATION 1

Mathematical models of mechanical systems: system response to given inputs; modification of system parameters to obtain a more desirable response in closed loop.

Courses: IF53, ME45, ME46

Prerequisites: MAB493, MEB111

Co-requisite: MEB660

Credit Points: 7

Contact Hours: 3 per week

■ MEB641 AUTOMATION 1

Mathematical models of mechanical systems; time domain; frequency domain; S-plane, including plotting of root locus diagrams.

Course: IF56

Credit Points: 8

Contact Hours: 4 per week

■ MEB650 THERMODYNAMICS 3

Properties and testing methods of solid, liquid and gaseous fuels; combustion calculations; flue gas analysis; energy tariffs and audits; major applications of energy management, eg. buildings, process plant, compressed air systems, vehicle fleets; economic evaluation of energy projects; introduction and management of energy-saving programs; field visit.

Course: ME45

Prerequisites: MEB215, MEB550

Credit Points: 6

Contact Hours: 3 per week

■ MEB660 FLUID POWER

Introduction to fluid power; graphical symbols; simple circuits; cascade method; Boolean algebra; fluid logic; Karnough-Veitch method; hydraulic components; hydraulic system design; hydraulic circuits.

Courses: IF53, ME35, ME45

Prerequisite: MEB462

Credit Points: 6

Contact Hours: 3 per week

■ MEB661 TRIBOLOGY

Terminology in lubrication, friction and wear; ploughing and adhesion components of friction; characterisation of solid surfaces; wear modes; chemistry of lubricants; lubrication modes; bearing design; lubrication of transmission elements; failure diagnosis; special lubrication problems; biological deterioration of lubricants; lubrication of human and prosthetic joints.

Course: IF56

Credit Points: 8 **Contact Hours:** 4 per week

■ MEB662 FLUID POWER

Components of hydraulic and pneumatic systems; fluid power graphical symbols to Australian standards; fluid logic; hydraulic components; hydraulic system design; hydraulic circuits.

Course: IF56 **Prerequisite:** MEB465

Credit Points: 8

Contact Hours: 4 per week

■ MEB670 INDUSTRIAL ENGINEERING 1

Project planning and control; plant location and layout; work study; design of experiments; linear programming applications.

Courses: IF53, ME35, ME45, ME46

Credit Points: 6

Contact Hours: 3 per week

■ MEB672 TOTAL QUALITY MANAGEMENT

Total quality control and systems; quality engineering technology; statistical process control; product and systems reliability; ISO9000 and AS3900; management of engineering projects.

Course: IF56

Credit Points: 8

Contact Hours: 3 per week

■ MEB673 MANUFACTURING ENGINEERING 3

Machine tool vibration and chatter; water-jet, laser, EDM machining; introduction to CAD/CAM and CNC part programming; robotics and its industrial applications; use of laser interferometry.

Course: IF53

Prerequisites: MEB471, MEB571

Credit Points: 7

Contact Hours: 3 per week

■ MEB674 INDUSTRIAL ENGINEERING

Project planning and control; manufacturing resources planning; total quality management; principles of work study and materials handling systems.

Course: ME35

Credit Points: 8

Contact Hours: 3 per week

■ MEB675 PLASTICS TECHNOLOGY

Mechanical and physical properties of polymers; blow moulding, compression moulding, transfer and rotational moulding; extrusion and plastic injection

moulding; tooling and product design for plastic components; machinery, process control and instrumentation in the plastics forming process.

Courses: IF56, ME35

Credit Points: 8 **Contact Hours:** 4 per week

■ MEB676 DESIGN FOR MANUFACTURING 1

Introduction to solid modelling; techniques used in the development of solid models; use of solid modelling in rapid prototyping; solid modelling in the concurrent engineering environment; introduction to CAD/CAM; use of CAM computer software for different manufacturing processes; other rapid prototyping techniques such as stereolithography.

Course: IF56

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB680 ADVANCED MECHANICAL DESIGN

The application of modern materials and analytical techniques to mechanical design: case studies; statistical analysis of failures; application of material science in design; fracture mechanics; computer aided optimisation techniques.

Courses: ME45, ME46

Prerequisites: MEB230, MEB231, MEB411, MEB483

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB681 BIOENGINEERING DESIGN 3

Real-time data processing circuitry; operational amplifier design and application; filter selection and design; logic circuit design; electrical control circuits; design for safety and reliability; biomedical transducers and sensors; computer control and data logging; use of stepper motors and gears; design of typical biomedical instruments.

Course: ME46

Prerequisites: EEB202, EEB371, PHB504

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB690 AIRCRAFT SYSTEMS

Design criteria and techniques of hydraulic, pneumatic and electrical circuits to provide the services to operate a modern aircraft, eg. detailed analysis of undercarriage and flap systems; aircraft fuel systems; pressurisation systems; cockpit instrumentation and associated equipment; principles and operation of gyroscopes and accelerometers.

Course: EE43

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB701 SPECIAL TOPIC 3

See MEB601.

Courses: ME45, ME46

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB703 RELIABILITY AND MAINTENANCE OPTIMISATION

Development of reliable designs; bathtub curve, FMECA; series, active and standby reliability and availability; matrix methods; system productiveness; fault trees; distribution forms; Weibull analysis; renewal theory, age renewal; block renewal, bad-as-new renewal; Hastings' repair limit; inspect or monitor; physics of failure.

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB710 AUTOMATION 2

Use of computer packages in control system design (eg. Matrix, 'X'); fundamentals of discrete time systems; instrumentation used in the acquisition and analysis of digital data (eg. Labtech); programmable logic controllers.

Course: ME45 **Prerequisites:** MEB640, MEB660

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB711 AUTOMATION 2

Classical control: performance specification, system identification, creation of control loops, tuning, simulation; modern control: state space modelling, state variable feedback, controllability/observability, simulation.

Prerequisite: MEB641

Credit Points: 8 **Contact Hours:** 4 per week

■ MEB740 MAINTENANCE MANAGEMENT & TECHNOLOGY

Economic and environmental importance of maintenance; management including organisation; data systems; cost control; spares policy; design for reliability; planning of overhauls; maintenance of buildings; mechanical maintenance and failure analysis; electrical and electronic maintenance.

Courses: EE43, IF56, ME35, ME46

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB771 INDUSTRIAL ENGINEERING 2

Forecasting; manufacturing resources planning; scheduling; capacity planning; total quality control; modelling and simulation.

Courses: IF53, ME45

Prerequisite: MEB670

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB772 ENGINEERING PROJECT APPRAISAL

Rational economic analysis of engineering projects at product and project level; techniques needed to establish the cost of a project; techniques for determining design changes needed to reduce the manufacturing cost of a product; strategies for new product planning.

Course: ME45

Prerequisites: MEB502, MEB472, MEB483

Co-requisites: MEB670, MEB773

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB773 DESIGN FOR MANUFACTURING 1

Value analysis and principles related to product design; tolerance technology; design of jig and fixtures; cutting tools applicable for various machining operations including assembly.

Courses: IF53, ME35, ME45

Prerequisite: MEB171

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB774 OPERATIONS MANAGEMENT

Method study and work measurements; job design, project planning and control; scheduling; capacity planning; resource planning; inventory control; total quality control.

Course: EE43, IF56, ME45

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB775 TECHNOLOGY MANAGEMENT

Ethics in business, policy and public service; health and safety administration and responsibilities; innovation, planning, creativity and intellectual property; planning and legal aspects of new technology and technology management.

Course: IF56

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB776 DESIGN FOR MANUFACTURING 2

The system of limits and fits; AS1654; geometric analysis for different features; interchangeability and loops equation; geometric tolerancing; datum systems; basic features of jig and fixture design.

Course: IF56

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB780 REHABILITATION EQUIPMENT DESIGN & EVALUATION

Functional requirements of orthoses; orthotic

biomechanics; design and construction of orthoses; biomechanics of artificial limbs; alignment techniques; amputee socket design and manufacture; wheelchair design requirements; clinical evaluation of rehabilitation equipment.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ MEB790 SPACECRAFT & SATELLITE DESIGN

Analysis techniques of space vehicle control including stabilisation and attitude control; monitoring and control of internal environment; albedo measurements; effects of solar eclipse; heat and radiation projection methods; design of on-board systems including power systems; attitude control; libration dampers; accelerometers and station keeping systems; requirements for satellite and ground-station equipment design and operation.

Course: EE43

Prerequisite: EEB692

Credit Points: 8 Contact Hours: 3 per week

■ MEB800 SPECIAL TOPIC 4

See MEB701.

Courses: IF56, ME45, ME46

Credit Points: 8 Contact Hours: 3 per week

■ MEB801 PROJECT

Investigate and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Credit Points: 40 Contact Hours: 6 per week

■ MEB810 INDUSTRIAL NOISE & VIBRATION

Vibration measurements; spectrum analysis; Kurtosis, Cepstrum and envelope analysis; averaging; gear, bearing and rotor vibration; whole body and arm vibration; noise measurements; noise power; industrial standards; attenuation methods.

Courses: IF53, ME45

Prerequisite: MEB510

Credit Points: 8 Contact Hours: 3 per week

■ MEB871 COMPUTER CONTROL OF MANUFACTURING SYSTEMS

Analysis of digital control systems and its application to process monitoring; programmable controllers; control of manufacturing and information systems in manufacturing; integration and interfacing of machine tools; applications and control systems associated with industrial robots; communications networks for manufacturing including MAP/TOP.

Course: IF56

Credit Points: 8 Contact Hours: 4 per week

■ MEB872 DESIGN FOR MANUFACTURING 3

Materials selection; design for manufacturing processes including casting, forging, extrusion, metal stamping, forming, powder metallurgy, welding and joining; design for assembly; design with advanced materials including plastics, ceramics and adhesives; electromechanical parts assembly; productivity, quality and cost considerations.

Course: IF56

Prerequisite: MEB776

Credit Points: 8 Contact Hours: 3 per week

■ MEB873 COMPUTER INTEGRATED MANUFACTURING

Systematic approach to integrated manufacturing systems; product-centred approach to manufacturing process; concepts of cell manufacturing; flexible manufacturing systems; modelling and simulation as a manufacturing system design tool; modelling and simulation methodology; use of commercial simulation

package to evaluate manufacturing systems design.

Course: IF56

Credit Points: 8 Contact Hours: 4 per week

■ MEB891 HEALTH LEGISLATION & THE MEDICAL ENVIRONMENT

National and international legislative controlling bodies and codes; quality systems and good manufacturing practice; audit function and document trail; standards and compliance; law and medical products; hazard analysis and medical products; corrective actions and design charge; recall (hospital and production).

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ MEB892 ROBOTICS IN HEALTH CARE

Components and terminology; dynamics of multi-linked systems; coordinate systems; mechanics and design of manipulators and end-effectors; servo system control theory; robotic sensors and location devices; computer programming of robots; anthropomorphic robots; applications of robots in surgery, rehabilitation and industry.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ MEB900 MANUFACTURING PROJECT

The student is required to investigate in depth and present a formal report on a problem area taken from the full range of manufacturing engineering practices. Project may arise through investigation in applied research programs or specific topics from industry.

Course: IF53

Credit Points: 24 Contact Hours: 3 per week

■ MEB901 INDUSTRY PROJECT

Student will work full-time in an industrial environment for approximately six months attempting to solve a particular problem in the organisation; student will present seminars and a final report.

Course: IF56

Credit Points: 32 Contact Hours: 40 per week

■ MEB911 FINITE ELEMENT ANALYSIS

General description of the finite element method; static and dynamic analysis of mechanical engineering problems; review of finite element packages.

Course: ME45

Prerequisites: MEB462, MEB511, MEB550, MEB610

Credit Points: 7 Contact Hours: 3 per week

■ MEB912 FINITE ELEMENT ANALYSIS

Survey of engineering applications of finite element analysis; formulation of simple elements including isoperimetric elements; modelling considerations for static and dynamic analyses; introduction to a finite element analysis package.

Prerequisites: MEB513, MEB554, MEB613

Credit Points: 8 Contact Hours: 3 per week

■ MEB950 PROCESS PLANT DESIGN

Duct and industrial pipework system design; pressure vessel design methods; field visits.

Course: ME45 Prerequisites: MEB251, MEB462

Co-requisite: MEB511

Credit Points: 8 Contact Hours: 3 per week

■ MEB951 ENERGY AND THE ENVIRONMENT

Developing an energy management plan; energy audits and associated metering; financial analysis; electricity and other tariffs; combustion theory and practice; fuel properties; energy cycles and refinement including co-generation; energy recovery methods and

plant; pinch technology; building energy management; compressed air; chemistry of water treatment processes.
Credit Points: 8 **Contact Hours:** 3 per week

■ MEB960 FLUID SYSTEMS DESIGN

Analysis of selected fluid systems; performance characteristics of components and systems.

Course: ME45 **Co-requisite:** MEB464
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB971 KNOWLEDGE BASED MANUFACTURING SYSTEMS

Introduction to knowledge based systems (KBS); knowledge representation, inference methods and uncertainty; examples of KBS in process planning, production management, diagnostic systems; building a KBS.

Course: IF56 **Prerequisite:** MEB976
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB974 DESIGN FOR MANUFACTURING 2

Design of press tools, dies for forming operations and joining processes; CAD in tool and die design.

Course: IF53 **Prerequisite:** MEB571
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB975 DESIGN OF MANUFACTURING SYSTEMS

Modelling of manufacturing systems using techniques such as IDEF; strategic planning for CIM; planning and design of FMS including selection of work stations, fixtures, AGV and robots; introduction to simulation and the use of simulation as a design tool.

Courses: IF53, ME45 **Prerequisite:** MEB976
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB976 COMPUTER INTEGRATED MANUFACTURING

Implementing CAD/CAM systems; component design using geometric modelling techniques; classification systems for part family formation and computer aided process planning; concepts and applications of flexible manufacturing systems (FMS).

Courses: IF53, ME35, ME45
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB977 COMPUTER CONTROL OF MANUFACTURING SYSTEMS

Analysis of digital control systems; applications and control of programmable controllers; control of information systems in manufacturing; data base techniques; integration and interfacing of machine tools; application and control systems in robots; communications network.

Courses: IF53, ME45 **Prerequisite:** MEB976
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB979 MANUFACTURING RESOURCES PLANNING

Manufacturing planning and control systems; recognising the various phases of planning in a manufacturing enterprise; lot size analysis and scheduling techniques; design aids and specifications of MRP II; measuring performances.

Course: IF56
Credit Points: 7 **Contact Hours:** 3 per week

■ MEB980 DESIGN OF POWER TRANSMISSION SYSTEMS

Design of systems for the transmission of mechanical power; solid elements: gears, clutches, belts, etc.; fluid elements: pneumatic and hydraulic.

Course: ME45
Prerequisites: EEB209, MEB313, MEB411, MEB483
Co-requisites: MEB510, MEB511
Credit Points: 8 **Contact Hours:** 3 per week

■ MEB981 DESIGN OF MATERIALS HANDLING SYSTEMS

Design of bulk material conveying and process plants, storage silos and bins, ground stockpiling systems, and the associated supporting structures.

Course: ME45
Prerequisites: CEB184, CEB185, MEB111, MEB411, MEB483, MEB511
Credit Points: 6 **Contact Hours:** 3 per week

■ MEN140 RELIABILITY & MAINTENANCE OPTIMISATION

Development of reliable designs; bathtub curve, FMECA; series, active and standby reliability and availability; matrix methods; system productiveness; fault trees; distribution forms; Weibull analysis; renewal theory, age renewal; block renewal, bad-as-old renewal; overhaul and renewal; Hastings' repair limit; inspect or monitor; physics of failure.

Course: ME76
Credit Points: 12 **Contact Hours:** 3 per week

■ MEN170 SYSTEMS MODELLING & SIMULATION

The concept of a model and model building; techniques for the solution of the models; simulation as a decision making tool; modelling for simulation and practical exercises in simulation using computer simulation packages in the areas of manufacturing systems and maintenance.

Courses: BS81, ME76
Credit Points: 12 **Contact Hours:** 3 per week

■ MEN171 ADVANCED MANUFACTURING TECHNOLOGIES

Overview of manufacturing systems engineering and applications of advanced computer aided drafting and design; implementation of CAD/CAM systems using three-dimensional modelling techniques; classification systems for part family formation for production and tooling; benefits of computer aided process planning; introduction and installation of flexible manufacturing cells and systems including robotics, automated guiding vehicles, on-line computer aided inspection, automation integration, support technologies and planning for CIM.

Course: ME76
Credit Points: 12 **Contact Hours:** 3 per week

■ MEN180 PROJECT MANAGEMENT

Covers aspects of project management, including project planning feasibility assessments and financial evaluation, scheduling and resource control, controlling the project with respect to time, cost and equality.

Course: BS86, IF66
Credit Points: 6 **Contact Hours:** 3 per week

■ MEN181 LOSS CONTROL MANAGEMENT

Teaches students the principles of loss prevention and how to apply them to the reduction of accidents, property loss and quality improvements.

Course: BS86, IF66
Credit Points: 6 **Contact Hours:** 3 per week

■ MEN190 PROJECT

Substantial piece of work relevant to the course and carried out by each student on an individual basis; report is examined and marked by academic supervisor in consultation with industrial supervisor.

Course: ME76
Credit Points: 24 **Contact Hours:** 3 per week

■ MEN240 MAINTENANCE MANAGEMENT & TECHNOLOGY

Economic and environmental importance of maintenance

nance; management of the maintenance function including organisation, data systems, cost control, spares policy, design for reliability, planning of overhauls; the maintenance of buildings; mechanical maintenance and failure analysis; electrical and electronic maintenance.

Course: ME76

Credit Points: 12 Contact Hours: 3 per week

■ MEN270 MANUFACTURING RESOURCE PLANNING

Functions and interrelationships between the three major components – production planning, operations planning and operations control – of a manufacturing requirements planning (MRP) system; practical exercises to provide hands on experience with a MRP system such as FACT.

Course: ME76

Credit Points: 12 Contact Hours: 3 per week

■ MEN271 METROLOGY

The theory and practice of metrology which relates overall quality system requirements, methods of specifying products and components, calibration requirements, the theory of errors and uncertainties and some specialist measurements into a meaningful interpretation of metrology as part of a quality system.

Course: BS86

Credit Points: 6 Contact Hours: 3 per week

■ MEN280 ENGINEERING PROJECT MANAGEMENT

Definition of project management; organisational structures for project management; planning the project; feasibility analysis; organising the project; legal aspects; project control; quality control.

Course: ME76

Credit Points: 12 Contact Hours: 3 per week

■ MEPI173 QUALITY PLANNING

Quality terminology; SQC and the Deming philosophy; quality costs; the business plan; total quality management; the place of QA; quality improvement techniques; quality assurance, the essential requirements; quality manual, program and plan; setting up and developing an appropriate QA program; organisation for quality; procedures; activities, action and QA role for design, procurement and manufacturing, audit and corrective action.

Course: BS77, IF69

Credit Points: 6 Contact Hours: 3 per week

■ MEP201 SAFETY TECHNOLOGY & PRACTICE I

Overview of models of the accident phenomenon; technological background of potential hazards with electrical power; construction site mechanical equipment hazards and failure; failure modes of engineering materials; mechanical properties of engineering materials and their effect on failure mode.

Courses: HL88, PU65

Credit Points: 12 Contact Hours: 3 per week

■ MEP273 QUALITY MEASUREMENT & TESTING

Measurement basics; measurement and standards; measurement errors; reliability of measurements; application of statistics; the cumulative distribution function; weights and errors; statistical interpretation of test results; the hypergeometric distribution; the binomial distribution; the poisson distribution; the pascal distribution; the normal distribution; the central limit theorem. Quality assurance in the laboratory; calibration in the laboratory; uncertainty of measurements; the laboratory quality manual; assignments and laboratory audits.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

■ MEP274 QUALITY SYSTEMS IMPLEMENTATION & MAINTENANCE

Expectations of quality systems in relation to the AS3900 series of standards and AS2990/AS3905.2; system implementation principles; complexities and solutions; State purchasing policy; auditing objectives, philosophy, methodology and standards.

Course: BS77, IF69

Credit Points: 12 Contact Hours: 3 per week

■ MEP301 SAFETY TECHNOLOGY & PRACTICE 2

The psychology of industrial accidents; the technology of electrical power plant mechanical equipment and materials failure pertaining to accident prevention; accident prevention and hazard recognition; risk management and control; design and maintenance of personal protection equipment; safe habits and the effective use of personal protection equipment.

Course: PU65

Credit Points: 12 Contact Hours: 3 per week

■ MEP371 RELIABILITY & MAINTAINABILITY

Reliability and maintainability; relationship between reliability and quality; designer, manufacturer and operator; means of achieving high reliability and maintainability; fundamental theory of reliability; reliability data analysis; practical applications of Weibull's distribution to reliability and maintainability; modelling; computerised maintenance systems, economics and systems availability.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

■ MEP372 MEASUREMENT TESTING & RELIABILITY

Measurement basics; reliability of measurements; application of statistics; statistical interpretation of test results; quality (product) from reliability (process); designer, manufacturer and operators role in achieving reliability.

Course: BS77, IF69

Credit Points: 12 Contact Hours: 3 per week

■ MET120 ENGINEERING DRAWING 1

Lettering and linework; principles of third angle projection; orthographic projection; pictorial drawing; assembly drawing; sectional views; CAD.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

■ MET140 ENGINEERING MATERIALS 1

General properties of materials; materials selection; service requirements and properties of ferrous and non-ferrous metals and alloys; corrosion types and prevention; testing procedures; plastics, ceramics and other materials.

Course: CE21

Credit Points: 8 Contact Hours: 3 per week

■ MET250 THERMODYNAMICS

Basic engineering thermodynamics concepts; systems; reversibility; first and second laws; working fluids; IC engine cycles and simple performance evaluations.

Course: ME23

Credit Points: 6 Contact Hours: 3 per week

■ MET320 ENGINEERING DRAWING 3

Geometric tolerancing; structural drafting; simplified dimensioning techniques; CAD.

Course: ME23 Prerequisites: MET120, MET220

Credit Points: 6 Contact Hours: 3 per week

MET350 PROCESS ENGINEERING

Steam plant; positive displacement compressors; refrigeration plant; positive expanders; reciprocating engines; gas turbines.

Course: ME23

Prerequisite: MET250

Credit Points: 7

Contact Hours: 3 per week

MET352 AIR CONDITIONING & REFRIGERATION

Ideal and actual refrigeration cycles including variation of operating conditions; performance of refrigeration equipment; psychrometry; cooling load estimation; air supply systems.

Course: ME23

Prerequisite: MET250

Credit Points: 7

Contact Hours: 3 per week

MET511 NOISE, STRESS & VIBRATION PRACTICE

Instrumentation used to measure vibrations, noise and stress; fundamental principles and equations related to such measurement; vibration isolation; noise standards; stress/strain transformations.

Course: ME23

Co-requisites: MET210, MET310

Credit Points: 6

Contact Hours: 3 per week

MET572 PRODUCTION PLANNING & CONTROL

Overview of production management; introduction to quality control; types of production; plant layout; scheduling and inventory control.

Course: ME23

Prerequisite: MET171

Credit Points: 6

Contact Hours: 3 per week

MET573 CAD/CAM TECHNOLOGY

Introduction to the fundamentals of CAD/CAM and geometrical modelling; automated process planning; practical applications in CNC programming and economics of machine tools; the use of robots and principles of integrated manufacturing systems.

Course: ME23

Credit Points: 7

Contact Hours: 3 per week

MET580 MACHINE ELEMENTS 1

Practical application of shear force and bending moment diagrams; selection of components from BHP manual; use of handbooks, codes and rolled steel section tables; bolted and welded connections; application of standard rolled steel sections; shafts.

Course: ME23

Prerequisites: MET120, MET220, MET210

Credit Points: 6

Contact Hours: 3 per week

MET600 MATERIALS FOR ELECTRICAL ENGINEERS

Properties of materials; materials selection; service requirements and properties of ferrous and nonferrous metals and alloys; corrosion types and prevention; testing procedures; plastics, ceramics, etc.

Course: EE22

Credit Points: 4

Contact Hours: 1.5 per week

MET601 MECHANICAL PLANT

Manufacturing processes and workshop practices; power station equipment (turbines and boilers); mining machinery; air conditioning equipment; fans and pumps; hoists; compressors; cranes; welding; heat transfer principles.

Course: EE22

Credit Points: 3

Contact Hours: 1.5 per week

MET680 MACHINE ELEMENTS 2

Selection and application of shafts and couplings; selection of spur, helical and worm reduction unit; determination of gear forces; selection of springs and brakes; curved beams.

Course: ME23

Prerequisite: MET580

Credit Points: 7

Contact Hours: 3 per week

MET733 INDUSTRIAL METALLURGY

Techniques in casting; metallurgical advances in materials and their evaluation.

Course: ME23

Prerequisite: MET433

Credit Points: 6

Contact Hours: 3 per week

MET782 JIG & TOOL DESIGN

Design of jig and fixtures for various machine operations and assembly; principles in design of blanking and forming dies; special forming techniques; dies used in blow and injection moulding; simple press capacity calculation.

Course: ME23

Prerequisite: MET171

Credit Points: 6

Contact Hours: 3 per week

MET850 ENERGY MANAGEMENT

Tariff framing and objectives; energy and power losses in electrical and mechanical plant; equipment and buildings; identification of losses; energy audits; load forecasting and control.

Course: ME23

Co-requisites: EET500, MET250

Credit Points: 6

Contact Hours: 3 per week

MET920 COMPUTER AIDED DESIGN & DRAFTING

Computer based drafting: two-dimensional drafting; design and solid modelling.

Course: ME23

Prerequisites: MET120, MET220

Credit Points: 6

Contact Hours: 3 per week

MET933 INDUSTRIAL TRIBOLOGY

Maintenance and maintenance systems; types and mechanisms of wear; bearings and seals; friction; lubricants; oils, greases, solid lubricants; gas as a lubricant; application of lubricants.

Course: ME23

Credit Points: 6

Contact Hours: 3 per week

MET960 FLUID POWER

Introduction to fluid power; compressed air systems; graphical symbols; cascade method of pneumatic system design; hydraulic components; hydraulic circuits.

Course: ME23

Credit Points: 7

Contact Hours: 3 per week

MET961 FLUID MECHANICS

Characteristics of pumps; turbines; compressors and fans; fluid couplings and torque converters. Friction losses in pipes and fittings. Pumping systems.

Course: ME23

Prerequisite: MET560

Credit Points: 7

Contact Hours: 3 per week

MET971 INDUSTRIAL PRACTICE

Human resource management; work study; aspects of communication; leadership and teamwork; practical applications in planning and control; basic engineering metrology.

Course: ME23

Credit Points: 7

Contact Hours: 3 per week

MJB100 MEDIA PRODUCTION

Focus on the still image and still images in juxtaposition in terms of the technical processes of producing images and the cultural and artistic processes of creating meaning with images; the processes of skills of photography; thematic presentation of images in sequence eg. slide shows; application of computers and other electronic technologies in media production and presentation including: basic applications, communications, graphics, animation, interactive videodisc, multimedia and computer-based education. Elementary computer skills are developed including the use of Microsoft Works.

Course: ED50

Credit Points: 12

Contact Hours: 3 per week

■ MJB102 TEXT ANALYSIS

Theoretical strategies applied to a range of texts from print media, film, and television; film language and concepts in the semiotic analysis of film and television texts; questions of intertextuality, media interfaces, and media and society.

Course: BS50

Prerequisite: COB113

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: MJB140

■ MJB103 NEWS PRODUCTION

What is a media organisation?; media industries and media firms; social responsibilities; managing deadlines; planning and decision-making in the newsroom; leadership and motivation; news practice: radio, television, newspapers; case studies.

Course: BS50

Prerequisites: MJB122, MJB138 (none for MBA students)

Credit Points: 12 Contact Hours: 3 per week

■ MJB104 MEDIA INDUSTRIES & ISSUES

An introduction to the study of the mass media, with particular emphasis on Australian media industries: television, radio, the press, advertising; film, video and music, from social, historical and industrial perspectives; current issues facing these industries.

Course: BS50

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: MJB140

■ MJB105 FILM & SOCIETY

The Great Depression era, Roosevelt's new deal; the ways 1930s genre films refracted these problems; post-war reconstruction and the re-affirmation of the family unit in 1940s films; the period of the House Committee on un-American activities and associated films; the films of the 1960s and various radical movements; the treatment of a range of social issues in American films of the 1970s and 1980s.

Courses: BS50, ED50

Prerequisites: MJB130 (or AAB052 or COB113)

Credit Points: 12 Contact Hours: 3 per week

■ MJB106 SCREEN ADAPTATION

The process of adaptation of literary texts into feature films. Selective thematic and textual analysis of modern literature and film enables students to appreciate both forms as an expression of society. These analyses are related to the broader questions of representation and rhetoric of fiction in film. (Note: this is not a script-writing unit.)

Courses: BS50, ED50

Credit Points: 12 Contact Hours: 3 per week

■ MJB107 GENDER & THE MEDIA

Cultural gender representation of masculinity and femininity in a range of media texts; historical, sociological and economic contexts of gender ideology and cultural discourses such as motherhood, romance, the new woman; violence; women as creators of visual art and media texts; women as audience; gender and popular culture.

Courses: BS50, ED50

Credit Points: 12 Contact Hours: 3 per week

■ MJB108 CREATIVE SOUND & IMAGE

Creation and manipulation of sound and image in the communication context; fundamentals of sound and sound recording; dynamic range, distortion, bias, equalisation, multitracking and mixing; fundamentals of light and colour; additive and subtractive colour, animation, pixilation, computer graphics.

Courses: BS50; Not available to Cross Institutional students

Credit Points: 12

Contact Hours: 4 (Workshops may involve a further 3 hours per week)

■ MJB109 AUSTRALIAN TELEVISION

Australian cultural identity before television; key myths in Australia: the Anzacs; crime and corruption as part of the Australian way of life; political and social crisis in Australia; the Vietnam experience; the search for an independent national identity; the relationship with Britain, USA and Japan.

Courses: BS50, ED50

Prerequisites: AAB052 or COB113 or MJB130

Credit Points: 12 Contact Hours: 3 per week

■ MJB110 ASIAN & LATIN AMERICAN CINEMA

A concentrated study of two of the following national cinemas: China, Japan, Brazil and Cuba. Chinese cinema from the perspective of the new cinema which emerged from the film makers Chen Kaige, Wu Tianming, Zhang Yimou and Tian Zhuangzhuang. Japanese cinema in relation to the dominance of a small number of film companies in the 1930s, the impact of World War II, and the output of film makers such as Mizoguchi, Ozu, Kurosawa, Ichikawa, Oshima and Itami. Cuban cinema within the context of the Cuban revolution. Brazilian cinema and the various phases of Cinema Novo, the influence of the Tropicalist movement, parody, the carnivalesque and the function of Embrafilme.

Courses: BS50, ED50

Credit Points: 12 Contact Hours: 3 per week

■ MJB113 FILM DRAMA PRODUCTION

Analysis of the process and effects of mediated communication; budgeting and production management; advanced production techniques in dramatic film. Students are required to work in crews to produce a significant film production.

Courses: BS50; Not available to Cross institutional students

Prerequisite: MJB126

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB114 FILM & VIDEO BUSINESS

The role of the producer and executive producer in the packaging and financing of film and television production: corporate, training and documentary, grant films, features and mini-series; achieving balance in above-the-line, below-the-line and marketing costs. Sources of finance: pitching to corporate sponsors, corporate clients, investors, pre-sales, government grants, Film Finance Corporation; obtaining finance, insurance, completion guarantees, legal and accounting requirements; social and ethical issues.

Course: BS50, BS72

Prerequisites: MJB113 or 144 credit points in a degree program.

Credit Points: 12 Contact Hours: 3 per week

■ MJB115 SUPERVISED PROJECT FILM & TV

The completion of a significant film or video production. Seminar presentation and discussion of each stage of production throughout the semester with progress reports made each week including pre-production the viewing of rushes and cut material.

Courses: BS50; Not available to Cross Institutional students

Prerequisites: MJB114 and either MJB134 or MJB113

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB118 FUNDAMENTALS OF PHOTOGRAPHY

Historical development of the photographic arts, the photographer's role in society, visual perception and design, photography as both art and craft; display photography, news photography, photo layout and design; the still camera, developing, printing and enlarging; creative use of camera and darkroom, Photo CD.

Courses: BS50, BS72, IF52, IF54, IT20

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB120 NEWSWRITING

Students learn to think like journalists, to evaluate events for their potential news value, to interview and perform other reporting tasks and to write news stories; the evolution and theories of reporting.

Course: BS50

Credit Points: 12

Contact Hours: 3 per week

■ MJB121 REPORTING PRINCIPLES

The philosophical rationale behind the free flow of information and its use studied from practical and theoretical perspectives. The journalist's role in society defined and explored through the use of advanced research techniques involving Freedom of Information, property and company searches and the use of newspaper databases.

Course: BS50

Prerequisite: MJB120

Credit Points: 12

Contact Hours: 3 per week

■ MJB122 SUB-EDITING & LAYOUT

Introduction to the basic copy editing and design principles for newspapers. These skills are incorporated with the latest desktop publishing technology with specific reference to newspapers. Students use wire stories from Australian Associated Press, Reuters, Associated Press and Agence France Presse in news and feature page design exercises.

Courses: BS50, BS72

Prerequisites: MJB120 or MJP100

Credit Points: 12

Contact Hours: 3 per week

■ MJB124 FEATURE WRITING

Students use the principles of reporting to produce newspaper and magazine articles that profile personalities, or that treat processes, events and places to exploit their human-interest news value.

Courses: BS50, BS72

Prerequisites: MJB121 for BS50 (JOU); MJB120 or MJP100 for all other students

Credit Points: 12

Contact Hours: 3 per week

■ MJB126 VIDEO PRODUCTION

The theory and practise of communication through the electronic media; criteria used in selection of the appropriate mediated form; principles of production; realising the intention of program, conversion of script to mediated form, roles and responsibilities, budgeting and production management; future directions in video; principles and practice of editing; pictorial composition, lighting, recording; use of special effects.

Courses: BS50, BS72, ED50, IF52, IF54, IS43, IT20

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB127 NARRATIVE CONCEPTS

The inter-relationship between improved means: lenses, editing techniques, cameras and sound and how they increase the scope of film makers. Elements of the graphic arts, the novel, dramatic forms and social phenomena in the various national groupings; designed to assist students in choosing effective narrative styles for

short films and especially dramas and dramatised documentaries by providing historical analysis of stylistic and technical developments of narrative film making.

Courses: BS50, BS72

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB129 FILM & TELEVISION SCRIPTWRITING

Writing through analysis of features, documentaries and drama; in-depth approach to writing through analysis of audiences and the industry; dialogue and character development; use of film in television and public relations; analysis of scripts and script requirements in contemporary markets.

Courses: BS50, BS72

Prerequisites: MJB127 or 96 credit points in a degree program.

Credit Points: 12

Contact Hours: 3 per week

■ MJB130 MEDIA TEXT ANALYSIS

The strategies applied in the analysis of texts are drawn from the following areas: new criticism and the traditional legacy; semiotics and structuralism/post-structuralism; Marxism and contextual/historical approaches; feminism. The media texts chosen include films, television programs, newspaper articles and cartoons, photographs and advertisements. Some examples are also drawn from literature.

Course: ED50

Credit Points: 12

Contact Hours: 3 per week

■ MJB131 TELEVISION STUDIO/POST PRODUCTION

Television studio production and post production of news/current affairs, magazine and drama; the roles of producer, director, art director, camera and audio operator, vision mixer, floor manager, technical director, production assistant and VTRs; the production crew as a team.

Courses: BS50; Not available to Cross Institutional students

Prerequisites: MJB126, MJB129

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB132 RADIO & TELEVISION JOURNALISM I

The practical and theoretical aspects of radio and television media are studied through the examination of interviewing techniques. Students learn radio style and usage and the evaluation of television news bulletins through seminar workshops. Strong emphasis is placed on current affairs knowledge.

Courses: BS50, BS72

Prerequisites: MJB121, MJB126

Credit Points: 12

Contact Hours: 3 per week

■ MJB134 VIDEO DOCUMENTARY PRODUCTION

Orientation to the history and development of documentary film and video and of the role of editing in the production; affective elements, the scope and limitations of creative editing, evolution of an editing plan, correlation of image, sound, music, pace, and tone in the total design; shooting and editing practice in workshops throughout the semester; production of a documentary or corporate video.

Courses: BS50, BS72

Prerequisites: MJB126 and (MJP100 or MJB129 or MJB124)

Credit Points: 12

Contact Hours: 3 (Workshops may involve a further 3 hours per week)

■ MJB135 PROFESSIONAL MEDIA PRACTICE

An opportunity to observe, and gain insight into, the applications of theory to practice. The student is placed with an approved employer. The lecturer in charge of the unit obtains reports from the student at regular intervals. The student is required to contract the completion of a progressive assessment program. The student's result is determined on the basis of reports, continuous assessment and the employer's report.

Courses: BS50; Not available to Cross Institutional students

Prerequisites: MJB122 or MJB138 for BS50 (JNL) majors; MJB113 or MJB134 for BS50 (FTV) majors
Credit Points: 12 **Contact Hours:** 3 per week

■ MJB137 PUBLIC AFFAIRS REPORTING

The role of the reporter in covering local, state, national and international politics, and major political issues are examined in depth. Topics include: the public's right to know, defamation restrictions, the constitution, federalism, defence, immigration and multiculturalism, health, welfare and education, the environment, science and industrial issues, economics and finance reporting.

Course: BS50 **Prerequisite:** MJB124
Credit Points: 12 **Contact Hours:** 3 per week

■ MJB138 RADIO & TELEVISION JOURNALISM 2

Philosophy and formulation of radio and television current affairs, anchor techniques, radio and television news production using computers.

Courses: BS50, BS72 **Prerequisite:** MJB132
Credit Points: 12 **Contact Hours:** 3 per week

■ MJB139 JOURNALISTIC ETHICS & ISSUES

The Australian Journalists' Association code of ethics is examined against the background of Australia's multicultural and pluralistic democracy; the evolution of the code, its philosophical underpinnings, how it compares to other national and international media codes and the general value of codes of ethics. Students will be placed in ethical dilemmas and asked to make decisions and justify their choices; the value of deathknocks, privacy, defining off-the-record, handling leads and women in the media.

Course: BS50, BS72
Credit Points: 12 **Contact Hours:** 3 per week

■ MJB140 THE MEDIA & SOCIETY

A range of theoretical positions on mass media study; the political economy of the media; the role and meaning of advertising, the function of news; audience theory; media representation of different societal groups: gender, race, ethnicity, class, age; public access media; media ownership and control; the treatment of social issues in the media; textual and discourse analysis; popular culture of the media.

Courses: BS50, ED50
Prerequisites: MJB130 (or AAB052 or COB113)
Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: MJB104

■ MJB141 FILM LANGUAGE

The processes by which meaning is constructed in film; the question of form in film, how films, both narrative and non-narrative, may be structured; the production of meaning through a detailed examination of mise en scene: movement and placement of actors, setting, lighting, and costume, cinematography: including camera angle, distance, movement, animation, and special effects, editing, and sound.

Courses: BS50, ED50

Prerequisites: MJB130 (or AAB052 or COB113)

Credit Points: 12 **Contact Hours:** 3 per week

■ MJB143 AUSTRALIAN FILM

An examination of films of the 70's, 80's and 90's; historical/social context; construction of cultural discourses in film; national identity, class, ethnicity and gender; the politics of production in Australia.

Course: BS50

Prerequisites: MJB130 (or AAB052 or COB113)

Credit Points: 12 **Contact Hours:** 3 per week

■ MJB144 EUROPEAN CINEMA

The cinema of two of the following countries: Italy, Germany, France. Italy: the epic films of the silent period, Fascist films, neo-realism, and the work of Antonioni, Visconti, Rossellini, De Sica, Fellini, Olmi and Bertolucci. Germany: expressionism, Nazi cinema, the influence of the war on film content and production, and the New German cinema, including the work of Herzog, Fassbinder, Wenders, Scholondorf and Kluge. France: the work of Bresson, Resnais, Tati, Demy and Deville, the avant-garde movements of the 1920s, poetic realism, the New Wave, and post 1968 cinema.

Courses: BS50, ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ MJB146 AUSTRALIAN DOCUMENTARY FILM

The newsreel in Australia; Fox Movietone News and Cinesound Review; Film Australia, alternative documentary in the work of the Waterside Workers Film Unit; the impact of television on documentary film making; the Sydney Women's Film Group; radical film makers, Bradbury, Zubrycki and Pilger.

Course: BS50

Credit Points: 12 **Contact Hours:** 3 per week

■ MJB147 FILM GENRES

Genre conventions: the narrative patterns, styles, and iconographies which govern the production and reading of genre films; the evolution of genres in relation to social change; the relationship with the Hollywood studio system including economic and ideological constraints; the conventions of specific genres such as the western, the musical, horror and science fiction films, film noir, and the family melodrama. Three genres are selected for special study.

Courses: BS50, ED50

Credit Points: 12 **Contact Hours:** 3 per week

Incompatible with: MJB116

■ MJB149 FILM HISTORY

The development of the Hollywood classical continuity style; notions of realism and their relation to French poetic realism of the 1930s, neo-realism in post war Italy, and the kitchen-sink films of Britain in the 1960s; modernism; expressionism and film noir; the impact of wide-screen formats; the various 'new waves' of the 1950s and 1960s; and the impact of new technologies and information systems on film.

Courses: BS50, ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ MJN100 ADVANCED MEDIA THEORY

This is the first unit of the media studies strand of the Master of Business. As a preliminary to undertaking research in media studies, students study contemporary media theory in detail, extending the overview of communication and media theory offered in Communication Theory 2. Topics include: contemporary political economy of the media, feminist cultural theory, textual and audience studies in media and cultural

studies, post-modernism, and cross-cultural communication. These studies will find preliminary application in some relevant research areas.

Course: BS84 **Prerequisites:** MJP101 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ MJN101 ADVANCED MEDIA ANALYSIS

The theoretical strategies discussed in MJN100 are here given practical application in regard to textual practice. The more important theories of textual analysis: semiotics, structuralism, psychoanalysis, Marxism and feminism are applied to a range of texts drawn from print media, including newspapers and magazines; film; television; and popular fiction.

Course: BS84 **Prerequisite:** MJN100
Co-requisite: MJN100
Credit Points: 12 **Contact Hours:** 3 per week

■ MJN103 AUSTRALIAN MEDIA CONTEXTS

Analyses specific aspects of the interaction between mass media and the Australian cultural context; approaches this relationship through cultural studies methodologies: discourse analysis, semiotics, structuralism and theories of cultural production; explores at an advanced level the histories and contemporary configurations of Australian media industries; telecommunications, television, film, radio, advertising and the print media.

Course: BS84 **Prerequisite:** MJN100
Co-requisite: MJN100
Credit Points: 12 **Contact Hours:** 3 per week

■ MJN105 COMPARATIVE JOURNALISM

Theoretical basis of different media systems throughout the world; debate over the dominance of world media by western, particularly anglo-American, countries and perceived need for a new world information and communication order; practical problems of foreign correspondents in different societies.

Course: BS84
Credit Points: 12 **Contact Hours:** 3 per week

■ MJN106 JOURNALISTIC FREEDOM & RESPONSIBILITY

Provides opportunities for in-depth studies of the historical, philosophical and theoretical foundations of journalism, the law of journalism and journalistic responsibilities. Students learn historiography and how to research the law. They present to the class papers that might later become part of their theses on a historical issue, on a legal issue or on an ethical issue.

Course: BS84
Credit Points: 12 **Contact Hours:** 3 per week

■ MJP100 JOURNALISTIC WRITING

Learning to think like journalists; to evaluate events for their potential news value; to interview and perform other reporting tasks and to write news stories. News values; reporting techniques; and journalistic writing; style and convention.

Courses: BS72, BS78
Credit Points: 12 **Contact Hours:** 3 per week

■ MJP101 COMMUNICATION THEORY 2

A systematic introduction to the critical and qualitative traditions of communication theory and research, with special emphasis on critical media theory. Applications to mass media, including television, film, radio, advertising, print, music.

Courses: BS61, BS72, BS84
Credit Points: 12 **Contact Hours:** 3 per week

■ MJP102 COMMUNICATION POLICY ENVIRONMENT

The public policy environment associated with

communication practice and processes; current issues; the participating and critical views. A study of the public policy process in selected countries with special emphasis on Australian communication policy. Social, legal, political and technical environments; current and major issues, and the differing approaches to communication policy.

Courses: BS61, BS84, IF64
Credit Points: 12 **Contact Hours:** 3 per week

■ MJP105 THEORIES OF JOURNALISM

The body of 'classical' literature pertaining to the theories of journalism; identification of individual research interests.

Courses: BS61, BS72, BS84
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB104 ADVANCED MARKETING RESEARCH TECHNIQUES

A market research project utilising concepts and techniques gained from market research.

Course: BS50 **Prerequisites:** MKB151, MKB137
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB105 PROFESSIONAL PUBLIC RELATIONS PRACTICE

Final year students work in public relations oriented organisations under supervision for 4 weeks. Students arrange for their own placements, with approval from the lecturer responsible for the unit. Acceptance into this unit is subject to the approval of the Head of School, and/or major coordinator.

Course: BS50
Prerequisites: MKB123, MKB120. Students must have completed 5 F/T semesters or equivalent.
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB106 PROFESSIONAL ADVERTISING PRACTICE

Final year students work in advertising oriented organisations under supervision for 4 weeks. Undergraduates arrange their own placements, which must be approved by the lecturer responsible for the unit. Acceptance into this unit is subject to the approval of the Head of School, and/or major coordinator.

Course: BS50
Prerequisites: MKB126 and students must have completed 5 F/T semesters or equivalent.
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB108 MARKET PRACTICES

Quantitative marketing practices in: inventory control; queuing; LP programming; market simulation; causal regression analysis; market applications.

Course: BS50 **Prerequisites:** MKB140, EPB109
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB112 RESEARCH METHODS

Traditions and methods in research, primary and secondary, qualitative and quantitative research.

Course: BS50
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB116 PRINCIPLES OF ADVERTISING

History of advertising; structure of the industry; functions and objectives; campaign planning; budgeting; elementary media planning; creative functions; elementary copywriting; principles of advertising.

Courses: BS50, BS72
Prerequisites: MKB140 (may be a co-requisite)
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB117 PUBLIC RELATIONS CAMPAIGNS

This is a specialist public relations unit examining strategies to relate an institution or individual to the

community through comprehensive public relations programs; these may include fundraising, special events, and corporate sponsorships; designed to increase intellectual depth of understanding and give students practical experience in problem solving and the implementation of actual community relations programs for various organisations.

Course: BS50 **Prerequisites:** MKB120, MKB133
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB118 ADVERTISING COPYWRITING

Target audience definition; copywriters and their functions, copy platforms; copy rationales; positioning; creative thought processes; advertising writing theories and styles; layout principles; newspaper, magazine and direct mail; outdoor copywriting; basic print production.

Courses: BS50, BS72

Prerequisites: (MKB116 and MKB112) or MKB151
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB119 ADVERTISING COPYWRITING – ELECTRONIC

Development of copy platforms and positioning; introduction to electronic media copy and storyboarding; electronic copywriting; graphic production; production of radio and TV commercials; campaign development and presentation of campaigns.

Courses: BS50, BS72

Prerequisite: MKB118
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB120 PUBLIC RELATIONS WRITING & EDITING

The function of media other than mass media. Public relations practitioners work in government, institutional and corporate environments which deal with internal and external audiences through a wide range of written materials as well as speech making. Writing and editing newsletters are covered through workshops. The role of the editor is emphasised to give an understanding of the importance of communication to achieve corporate objectives. Of equal importance is an understanding of techniques to write, edit and present speeches effectively.

Course: BS50

Prerequisite: MKB123

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB121 RETAIL ADVERTISING

Retail advertising; motivational techniques; national advertising; imagery and typography; advertising departments versus agencies; handbills, inserts, direct mail and catalogues; audience differentiation; measuring results; planning, copywriting and presentation of retail campaigns.

Courses: BS50, BS72

Prerequisites: MKB118 or MKB145 (may be a co-requisite)

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB122 ADVERTISING REGULATION & ETHICS

The various laws, codes and regulations which apply to advertising in Australia; the codes of ethics of the different institutions of advertising; recent and current examples of contentious advertisements; application of the principles and ethical standards covered.

Courses: BS50, BS72

Prerequisite: MKB116

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB123 PUBLICATION MANAGEMENT

The requirements for communicating in print and managing this process. It analyses the steps involved in design and production, focusing on management and liaison skills. The unit offers students desktop publishing skills which are required for assignments, and the

scope to produce a brochure for a client. Note: Students are required to undertake an additional 20 hours of desktop publishing training during the semester.

Courses: BS50, BS72

Prerequisite: MKB129

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB124 PUBLIC RELATIONS PRINCIPLES

The concepts and practice of public relations; the role and functions of public relations, its history, career paths, professional/ethical responsibilities, corporate public relations, public relations consultancies, the process of public relations, concepts of public opinion, persuasion and communication strategies. This unit offers a theoretical foundation for students to equip them to better understand and practise the public relations skills emphasised in later units.

Courses: AA21, BS50, BS72, IF52, IF54, IS43

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB125 MEDIA PLANNING

Costing and scheduling media, qualitative and quantitative factors affecting media selection and use, market targeting, researching the media plan, planning media strategy, coordination, media options, concepts of media decision making, comparisons, trends, media and the computer.

Courses: BS50, BS72

Prerequisite: MKB116

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB126 ADVERTISING MANAGEMENT

Theories of mass communication, psychology, empirical research and market planning in the context of the advertising management function.

Courses: BS50, BS72, IF52

Prerequisites: MKB118, MKB122 and MKB125 or MKB116 and 4 marketing units.

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB127 ADVANCED ADVERTISING

Expansion and addition of theoretical perspectives and skills gained in the prerequisite unit. There is heavy emphasis on application of these perspectives to solving advanced advertising problems and the use of both basic and advanced skills in these solutions.

Course: BS50 **Prerequisites:** MKB118 or MKB125

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB128 DIRECT RESPONSE ADVERTISING

Principles and practice of direct response advertising in its various forms; ethical considerations against a background of Australian societal norms.

Courses: BS50, BS72

Prerequisites: MKB126 or MKB157

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB129 PUBLICITY & PROMOTION – PRINT

Focus on communication within the print media. Students are given the background, techniques and skills needed to work with newspapers, magazines and trade press. Producing and evaluating communication materials such as news releases, features, and media kits form the core of the unit. Guest lecturers join the class to discuss aspects of media relations, writing style and publicity planning.

Courses: BS50, BS72

Prerequisites: MJB120 & MKB124. Grad Dip students should substitute MJP100 for MJB120.

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB130 PUBLICITY & PROMOTION – ELECTRONIC

Production skills in video as they apply to public

relations in organisations. Students produce a complex video news magazine for a client organisation. This includes scripting, presenting, and production management. Techniques for producing and placing community service announcements are covered.

Course: BS50

Prerequisites: MJB126, MKB129

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB131 ADVERTISING CAMPAIGNS

Students draw together and apply all of the professional knowledge and skills gained throughout their degree studies. Application of this to problems or cases set by lecturers and practitioners. The accent is on development and application.

Course: BS50

Prerequisites: MKB126 and Advertising major units

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB132 GOVERNMENT & FINANCIAL RELATIONS

Standards of social responsibility and public accountability in organisations and society. Through the presentation of case studies in financial and government relations, students develop an understanding of problem definition, the planning and implementing of public relations programs, and the communication strategies designed to solve specific problems.

Courses: BS50, BS72

Prerequisites: EPB124, MKB123

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB133 PUBLIC RELATIONS CONSULTING & MANAGEMENT

The management of public relations practice including research, budgets, consultancies and people. It is tailored for students who have completed most of the public relations strand and is designed as advanced level preparation for employment in the field. The unit offers input from specialist guest lecturers who are practitioners/specialists in a particular area.

Course: BS50

Prerequisite: MKB123

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB134 BUSINESS FORECASTING

The theory and application of quantitative forecasting models including smoothing techniques, CDA and auto-projective; causal models in sales and advertising; qualitative models including Delphi.

Course: BS50 **Prerequisites:** EPB109, MKB108

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB136 MARKETING LOGISTICS

Marketing logistics is concerned with the planning, development, maintenance and control of the system of supply and distribution activities that place the organisation's product or service in the hands of its customers. The unit enables students to understand the importance of logistics and to study improvements that will increase customer service and reduce distribution costs. Involves the application of mainly quantitative models and techniques concerned with product flow from purchasing to consumption; covers distribution strategies, quality, inventory costs and control, warehousing and transportation, project network analysis, location and logistics planning. Plant visits are an important part of the learning process in this unit.

Course: BS50, IF56

Prerequisites: (MKB140 and EPB109) or MKN106

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB137 COMPUTER APPLICATIONS IN MARKETING

Techniques in market research; univariate and bivariate

analysis; non-parametric statistics; ANOVA; the multivariate techniques common to marketing research; dependence methods such as multiple regression, MANOVA, multiple discriminant analysis and conjoint measurement; interdependence methods including factor analysis, cluster analysis and multi-dimensional scaling.

Course: BS50 **Prerequisites:** EPB109, MKB140

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB140 PRINCIPLES OF MARKETING

The role of marketing and its importance in contemporary organisations. Introduction to marketing decision areas: the marketing concept; understanding consumer behaviour and preferences, marketing research and marketing information systems; market segmentation and planning, strategy and control; the components of the marketing mix, viz. product planning, management and development; pricing methods and strategies; promotion including personal selling, advertising, publicity, sales promotion, distribution.

Courses: BS50, BS72, ED23, IF52, IF54, IF56, IS43, IT20

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB141 MARKETING MANAGEMENT

Contemporary marketing concepts linked to strategic applications; market segmentation, product positioning, product portfolio analysis, marketing strategies in key areas such as product development, promotion, distribution and pricing.

Courses: BS50, IF56

Prerequisites: MKB140 or MKN106

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB142 CONSUMER BEHAVIOUR

Internal and external influences on the individual consumer including motivation, perception, learning, attitudes and social class, culture, reference groups, and the consumer decision process and their impact on marketing strategy.

Courses: BS50, IF56

Prerequisites: MKB140 or MKN106

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB143 EXPORT MANAGEMENT

The role of government including need to export; export incentives; methods of exporting, including agents and merchants, consultants and overseas organisations; bases for export sales, including terminology and exporter's responsibilities; export documentation; finance of export trade, including methods of payment, finance for export transactions and foreign exchange transactions; export finance insurance corporation; modes of international transport; marine insurance; quoting for export, including pricing policies, export costs, marketing and packaging and quotations. A major case study is included as part of the study program.

Courses: BS50, IF56

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB144 SALES MANAGEMENT

The range of analytical activities performed in the design and management of the selling function of the organisation. These activities include sales forecasting, sales force size, territory management, selling logistics, sales force motivation, sales negotiation, sale ethics.

Course: BS50 **Prerequisites:** MKB140 or MKN106

Credit Points: 12 **Contact Hours:** 3 per week

■ MKB145 RETAILING MANAGEMENT

Introduction to the techniques, concepts and analytical issues involved in retailing management. The dynamics of the retail system are examined from a strategic

marketing viewpoint and include a basic appreciation of retail customer behaviour and retail information needs. The analysis of store location and the evaluation of retail trade areas are given detailed attention along with store layout and design. Elements of merchandising, franchising and promotion are also examined.

Course: BS50 **Prerequisites:** MKB140 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB146 SERVICES MARKETING

The special characteristics of services and possible strategies to deal with those characteristics; the nature and classification of services; the differences between services and products and their implications for the marketing/customer mix and for marketing strategy; the relationship of the service organisation with its customers; the concept of productivity for services, including the management of demand and supply; the search for service quality and consistency, including the issue of standardisation versus customisation.

Courses: BS50, IF56
Prerequisites: MKB140 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB147 RETAIL MERCHANDISING

Development of a strong grounding in those retailing activities that comprise the merchandising function of the different types of retail stores including the distributors of durable consumer goods from the large supermarket or department store to the smallest corner store. Topics associated with the merchandising of retail products: forecasting customer demand, planning, promotions, as well as the managerial control of buying and stocking merchandise.

Course: BS50 **Prerequisites:** MKB140 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB148 MARKETING DECISION MAKING

Examines the kinds of decisions marketing practitioners have to deal with in their daily business activities. These areas include: sales forecasting, market analysis product planning, pricing, promotion distribution and other related areas. Decisions are viewed from a predominantly quantitative perspective with emphasis on computer models and spreadsheets as the vehicles for their application.

Courses: BS50, IF56
Prerequisites: MKB140 and ISB892 for undergraduate students; MKN106 for postgraduate students.
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB149 INTERNATIONAL MARKETING

Nature and practice of international marketing. Assumes a familiarity with general marketing management and builds on this to develop insight into and understanding of the peculiar nature of international marketing management and the problems of marketing within different national markets. The unit is managerial in the sense that it focuses on problems and decisions facing managers of international marketing in business enterprises.

Courses: BS50, IF56
Prerequisites: MKB140 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB151 MARKETING RESEARCH

Problem formulation; research design and sources of information; data collection; analysis and interpretation of data; the marketing research report and presentation.

Courses: BS50, IF56
Prerequisites: MKB141 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB152 PROMOTIONAL STRATEGY

The marketing promotional mix and its relationship with the marketing mix, the structure of marketing communications and their environmental framework of promotion practice; the media of marketing communications; the planning and control.

Course: BS50 **Prerequisites:** MKB140 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB153 PROFESSIONAL MARKETING PRACTICE

With the approval of the lecturer, students undertake a preferred study program within the marketing framework, eg. some particular area of the marketing mix. This requires students to undertake a project or internship with a suitable company, where they actively work on a part-time basis. The program is aligned as closely as possible to the preferred area of study. Students are required to submit a number of reports reflecting the theoretical concepts learned and the application to their job experience.

Courses: BS50, IF53 **Prerequisite:** MKB151
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB155 STRATEGIC MARKETING

The capstone of the marketing course; it reviews the state of the art in marketing strategy and current thoughts and concepts in marketing strategy formulation and focuses on the formulation of marketing strategy, a task undertaken in most companies at the strategic business unit level.

Courses: BS50, IF56
Prerequisites: MKB141 or MKN106
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB157 PRINCIPLES OF DIRECT MARKETING

The underlying principles, standards and practice of direct marketing; customer requirements; acquisition and servicing; strategic and tactical planning; database marketing; list procurement and use; cost and profit considerations; product delivery.

Courses: BS50, BS72
Prerequisites: MKB140 (may be a co-requisite)
Credit Points: 12 **Contact Hours:** 3 per week

■ MKB166 MARKETING TOURISM DESTINATIONS & ATTRACTIONS

Note: A quota of 100 applies to this unit. The marketing of tourism destinations, elements of the destination mix and industry attractions is explored. Services marketing principles and strategies are examined in the tourism sector within domestic and international contexts. The marketing of transport, hospitality, entertainment, events and attractions provide opportunities for knowledge development in tourism growth areas.

Course: BS50
Prerequisites: MKB140 (nil for postgraduate)
Credit Points: 12 **Contact Hours:** 3 per week

■ MKN100 SEMINARS IN MARKETING THEORY & RESEARCH METHODS

The primary objective of this unit is to prepare students for their thesis in MKN112 and MKN113. More generally, the unit helps students to develop practical knowledge and skills to plan, carry out and report their own research projects in business and in academia, and to understand and evaluate reports of research in academic journals and elsewhere. Among the topics covered are: identifying a research problem, building a theoretical framework and generating hypotheses, choosing a methodology, collecting and analysing quantitative and qualitative data, and writing a structured report.

Courses: BS61, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN101 SEMINARS IN BUSINESS FORECASTING

Exponential and moving average techniques; decomposition models; seasonal regression models; stochastic models; stationary and non stationary models; model identification and estimation; diagnostic checking; transfer functions.

Courses: BS61, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN102 BUSINESS LOGISTICS

The integrated physical distribution management concept; customer service; inventory policy, analysis and decision making; distribution channels, design and strategy; transport systems and model choice; modelling the facility location, optimising size, siting and network; logistics and pricing; organisational implementation of marketing logistics concepts.

Courses: BS61, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN103 SEMINARS IN MARKETING MODELLING

Introduction to advanced simulation work in market structures and the impact of influencing variables.

Courses: BS61, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN105 DECISION SUPPORT SYSTEMS

Timely and accurate information is a management resource, and computers can process much of this information to augment and extend a manager's capacity. The unit provides an understanding of the importance, variety and value of both quantitative and qualitative decision support systems, including a significant emphasis on computer-based information systems such as data bases and expert systems from the point of view of systems users rather than of specialist system analysts.

Course: BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN106 MARKETING METHODS & PRACTICES

The role of marketing and how marketing fits into the strategic processes of firms and institutions; key marketing decision areas including the marketing concept, marketing research, consumer behaviour, marketing segmentation and positioning, product policy, pricing, promotion and distribution.

Courses: BS70, BS78, BS81

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN107 SEMINARS IN MARKETING MANAGEMENT

An advanced study of marketing, marketing systems and market management decision processes within the contemporary structure of social, cultural, political, economic, business and organisational environments. Advanced marketing theory from both strategic and tactical perspectives with emphasis on the relationship between marketing and corporate policy as well as both the internal and external social, behavioural and motivational factors. Marketing issues associated with both profit and non-profit organisations and the relevance of marketing theory to these institutions, including the developing area of international marketing.

Courses: BS61, BS83, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN108 SEMINARS IN CONSUMER BEHAVIOUR

Introduction to the area of consumer behaviour and

provides a forum for the discussion of theory and research in the field. Students will do research projects and be involved in discussions about the interdisciplinary nature of consumer behaviour. Issues from past classes include: children as consumers, consumerism, ethical decision making, gender representation in advertising, emotions research, time, hedonism and materialism, and cross-cultural research.

Course: BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN109 PRODUCT INNOVATION & DEVELOPMENT

This unit deals with the dynamics of product innovation and product development within the mix of core marketing activities in organisations. Products are defined in the broadest sense to include both tangible and intangible offerings and the various categories of consumer and industrial, services, and events. The unit covers areas such as product market analysis, design, innovation, evaluating and testing product ideas, branding and packaging, market testing and investment analysis. Learning methodologies are mostly experiential and include hands-on computer use, visits to organisations and practical exercises.

Courses: BS61, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN110 SEMINARS IN STRATEGIC MARKETING

This unit provides an in-depth understanding of strategic marketing, which is how an organisation can adapt to a changing external environment through market-driven strategic planning. Topics covered include: environmental analysis, segmentation and competition analysis, strategic positioning, new developments including international strategic marketing, and the strategic role of market information. The unit usually includes groups of students creating strategic marketing plans for real-world organisations.

Course: BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ MKN111 MARKETING FOR QUALITY MANAGEMENT

Introduction to advanced marketing theories and practice, the importance of quality to marketing and the role of the marketing function in quality management.

Courses: BS85, BS86

Credit Points: 6 **Contact Hours:** 3 per week

■ MKN112 THESIS (1-4)

This unit is the culmination of the Bachelor of Business (Honours) degree in Marketing and the first step towards the thesis in the Master of Business degree in Marketing (MKN113). Students apply theory and research material to explore in some depth an applied or theoretical topic in their chosen field. Students develop a research topic, collect information about that topic from primary and/or secondary sources, evaluate the evidence and arguments, and present the results of that critical assessment in an organised and logical form. The thesis will consist of a substantial written report. Honours theses of 48 credit points could be expected to contain up to about 20,000 words. Students select a supervisor to assist them with the development and implementation of their research topic. They will negotiate a learning contract which will stipulate among other things the frequency and duration of meetings with the supervisor, and the timetable for submission of interim and final reports. Planning for the thesis should begin as early as possible, allowing lead-up units to be keyed to the thesis as appropriate.

Courses: BS61, BS85

Credit Points: Students enrol in four sequential 12 credit point units commencing with MKN112/1 until they have completed 48 credit points. Progress is assessed at the end of each semester. Note that the Bachelor of Business (Honours) thesis is assessed on one major report submitted at the completion of MKN112.

■ **MKN113 THESIS (1-8)**

This unit follows on from MKN112 for Masters of Business students. Ordinarily the thesis would involve a report of up to 60,000 words for the Masters thesis.

Course: BS85

Prerequisites: MKN112/1-4

Credit Points: Students enrol in eight sequential 12 credit point units commencing with MKN113/1 until they have completed 96 credit points. Progress is assessed at the end of each semester. Note that the Masters thesis is assessed on one major report submitted at the completion of all necessary thesis units in MKN112 and MKN113.

■ **MKP100 FUNDRAISING PRINCIPLES**

Fundamentals of fundraising; preparation of the case statement; planning methods; the various techniques of fundraising. Introductory segments on public relations, advertising, marketing and management. Topics include: philosophy of fundraising, its role in society, budget, fundraising, gift and capital campaigns, planned giving, researching and establishing prospect bases, procedures of solicitation, team building of boards and volunteers, role of foundations.

Courses: AA21, BS72, BS78

Credit Points: 12 **Contact Hours:** 3 per week

■ **MKP101 FUNDRAISING CAMPAIGNS**

Fundraising leadership for increasing campaign productivity is the focus of this unit. Topics include: leadership and the 'Big Gift'; building staff and board leadership teams; using the mission statement to develop campaign strategy, planning and implementation. Fundraising campaign topics include: defining relevant constituencies and vehicles, budgeting and managing campaign elements, strategic management and ethical fundraising, evaluating fundraising. Students undertake a group project in the form of the analysis of a fundraising program.

Courses: BS72, BS78

Prerequisite: MKP100

Credit Points: 12 **Contact Hours:** 3 per week

■ **MKP102 ENTREPRENEURSHIP**

This unit is a capstone to the course for business administration students. It encompasses the use of entrepreneurial management styles and creative business planning as a strategic management tool. Students are required to develop and write a business plan based on an entrepreneurial idea, incorporating a hands on practical approach.

Courses: BS78, BS81, ED23

Prerequisites: Four postgraduate business units

Credit Points: 12 **Contact Hours:** 3 per week

■ **MKP107 MARKETING FOR ARTS ADMINISTRATORS**

This unit provides students of arts administration with an understanding of the principles of marketing and strategies for application; marketing statistics and audience research; segmentation and consumer behaviour; and the steps involved in developing marketing plans and campaigns for arts organisations.

Courses: BS30, BS78, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ **MKP108 ARTS ADMINISTRATION & SOCIETY**

Arts administration in the context of the national and international community; social, political, cultural and

economic influences; government arts policies and funding processes; organisational structures and strategic planning in the arts; community, multicultural and regional arts; current research and practices in arts administration.

Courses: BS30, BS78, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ **MKP109 THE ARTS INDUSTRY**

The framework of the arts as an industry; operational procedures; financial management; arts and the law; industrial relations in the arts; the use of the media; computer applications; business and volunteer support; work secondment case study.

Courses: BS30, BS78, BS85

Credit Points: 12 **Contact Hours:** 3 per week

■ **NSB114 CLINICAL PRACTICE 1A**

The acquisition of skills which are fundamental to nursing practice; communication skills, health assessment skills and selected technical skills in both University (on-campus) and clinical (off-campus) laboratories. Clinical laboratory experiences take place in a variety of settings which include various types of health care facilities, community facilities, domiciliary nursing services, occupational health services, disability services and outpatients clinics.

Course: NS40

Co-requisite: NSB151

Credit Points: 8 **Contact Hours:** 3 per week

■ **NSB115 CLINICAL PRACTICE 1B**

Provides students with the opportunity to consolidate the skills they have acquired during the preceding clinical unit, and aims at achievement of a specific level of clinical competence. Learning experiences are conducted in the clinical (off-campus) laboratory, and settings are as previously described.

Course: NS40

Co-requisite: NSB114

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ **NSB151 FOUNDATIONS OF NURSING PRACTICE 1**

An introduction to the major concepts which are fundamental to nursing practice. Topics include: the nature of individuals, families and communities, the impact of the environment on health, the concept of health, and the relationship between nursing and health care. The significance of a conceptual approach to nursing practice is explored.

Course: NS40

Credit Points: 8 **Contact Hours:** 3 per week

■ **NSB152 FOUNDATIONS OF NURSING PRACTICE 2**

Further development of the concepts of people, environment, health and nursing in order to facilitate an understanding of the theoretical basis of nursing practice. Topics include: human needs from a holistic perspective, human resources which can be utilised in the attainment of health, the roles of the nurse as a clinician, patterns of nursing care delivery, health care in Australia, and the concept of the multidisciplinary health care team.

Course: NS40

Prerequisite: NSB151

Credit Points: 8 **Contact Hours:** 3 per week

■ **NSB201 PRINCIPLES OF PATIENT CARE**

Emphasises the ethical, legal and clinical accountability of the radiographer for safe patient care; develops in radiography students an awareness of their responsibilities in protecting patients and promoting their well-being.

Course: PH38

Credit Points: 4 **Contact Hours:** 2 per week

■ NSB207 NURSING & THE INDIVIDUAL

Designed to deepen and broaden the clinical decision making skill base of students who already have a foundation in nursing and related sciences from previous studies; explores the significance of conceptual models for clinical decision-making, provides physical and psychosocial assessment skill practice, explores the concept of nursing diagnosis and associated care planning, and highlights the use of research in support of clinical decisions.

Course: NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB214 CLINICAL PRACTICE 2A

Provides students with the opportunity to continue the development of skills which are fundamental to nursing practice. Students practise applied communication skills, nursing diagnosis and care planning skills, and further selected technical skills in both University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this unit take place in a variety of settings which include hospitals, nursing homes and palliative care facilities.

Course: NS40

Co-requisites: NSB114, NSB115, NSB151, NSB152

Credit Points: 8

Contact Hours: 3 per week

■ NSB215 CLINICAL PRACTICE 2B

Provides students with the opportunity to consolidate the skills which they have acquired during the preceding units; the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in the clinical (off-campus) laboratory and the settings are as described for the preceding clinical practice unit.

Course: NS40

Co-requisites: NSB114, NSB115, NSB214

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ NSB301 NURSING & BIOPHYSICAL HEALTH 1

Effects of selected pathophysiologic processes on meeting human needs; topics include: assessment and nursing diagnosis of gas exchange, circulation, hydration, physical comfort and safety problems; and independent and collaborative strategies designed to promote, maintain and/or restore health.

Course: NS40

Prerequisites: NSB151, NSB152

Credit Points: 8

Contact Hours: 3 per week

■ NSB302 NURSING & MENTAL HEALTH 1

Theories, concepts and models which provide the basis for understanding the individual and their mental health needs, and provides a framework for nursing care which acknowledges the importance of promoting, maintaining and restoring mental health. It addresses contemporary concepts of mental health and mental illness; biological and socio-cultural factors which can influence mental health and mental health problems; mental health assessment; and strategies for mental health promotion.

Course: NS40

Prerequisites: NSB151, NSB152

Credit Points: 8

Contact Hours: 3 per week

■ NSB304 NURSING & CULTURE

Socio-structural, behavioural, lifestyle and genetic factors play a large part in the determination of health status in contemporary Australia; development of an understanding, acceptance and appreciation of culture such that students are better able to provide people-centred care within a multicultural health care context. Topics include: nature of culture and behavioural

practices of societies, fundamental aspects of socio-anthropological and epidemiological methodology, cultural nature of contemporary Australian society, health policy and ethnic sub-cultural diversity, and cultural beliefs, activities, values and behaviour regarding selected health-related practices.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB308 NURSING & MENTAL DISORDER

Mental disorder is common and extensive across Australia, and affects all age and social groupings. This unit provides a framework for addressing the important issues and principles associated with the understanding of the interrelatedness of individual, family, community and environment in the development, maintenance and resolution of mental disorders. Topics include the psychodynamics of normal and abnormal behaviour, diagnosis and presentation of common mental disorders, psychobiology, psychopharmacology, nursing intervention and research in the aetiology and treatment of mental disorders and mental health legislation.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB349 COUNSELLING & CRISIS MANAGEMENT

The basic theories and principles of crisis intervention methodology. Focuses on the role of nurses in counselling clients who are experiencing difficulties in their ability to deal with situations in which they find themselves. Topics to be addressed include major theoretical and conceptual perspective of counselling; the process of change; counselling in a group context; typology of crises; and crisis management.

Course: NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB350 HEALTH EDUCATION IN NURSING

An exploration of the theoretical bases of education, including concepts and issues within educational research. Topics to be explored include historical perspective of educational developments; educational research; educational theories, their utilisation; and client education in a health care context.

Course: NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB360 CLINICAL PRACTICE 3A/BH**■ NSB361 CLINICAL PRACTICE 3B/BH****■ NSB370 CLINICAL PRACTICE 3A/MH**

Students develop a range of skills which are associated with the nursing care of people experiencing biophysical or mental health dysfunction. Students practise the application of problem solving skills, selected technical and process skills and organising skills in both University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this unit are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

Course: NS40

Co-requisites: NSB214, NSB301, NSB215, or NSB302

Credit Points: 8

Contact Hours: 3 per week

■ NSB371 CLINICAL PRACTICE 3B/MH

See NSB215.

Course: NS40 Co-requisites: NSB360 or NSB370

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ NSB401 NURSING & BIOPHYSICAL HEALTH 2

Further develops an appreciation of the effects of selected pathophysiological processes on the meeting of human needs. Topics addressed include the assessment and nursing diagnosis of elimination, mobility, nutrition, skin integrity and sleep/rest problems along with independent and collaborative strategies designed to promote, maintain and/or restore health.

Course: NS40

Credit Points: 8 Contact Hours: 3 per week

■ NSB402 NURSING & MENTAL HEALTH 2

Expansion of the application of nursing knowledge and research about mental health to the provision of nursing care to clients with mental health problems. It provides, at an advancing level, a theoretical foundation for mental health nursing practice with a focus on diagnostic reasoning and intervention strategies to promote mental health and wellbeing. Topics include: theories of stress and adaptation; assessment, diagnosis and intervention in situations of developmental disorder, selected organic and non-organic mental syndromes and crisis intervention.

Course: NS40 Prerequisites: NSB151, NSB152

Credit Points: 8 Contact Hours: 3 per week

■ NSB406 NURSING & THE FAMILY

Family nursing practice recognises the substantial impact families can have on the health of individuals within the family unit, and upon society as a whole. An introduction to the knowledge base which underpins family nursing practice, facilitating the development of decision-making skills in this area. Topics include: nature of the family unit; family development; models of the family; and families with particular situational or developmental needs.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ NSB407 NURSING & THE COMMUNITY

Community health is an important focus for nursing practice; provides an introduction to fundamentals of community nursing practice and facilitates development of decision-making skills in this area. Topics include: models of community; community development; perspective of community health; application of epidemiological principles to community health; community groups with particular health needs; strategies for promotion of community health.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ NSB450 READINGS IN NURSING

This unit reflects the specialised expertise of staff and the interests of students. It includes the preparation of a summative review of relevant, current literature relating to a selected area of scholarship or research, including reports, monographs and journal articles.

Course: NS48

Credit Points: 8 Contact Hours: 3 per week

■ NSB460 CLINICAL PRACTICE 4A/BH

■ NSB461 CLINICAL PRACTICE 4B/BH

■ NSB470 CLINICAL PRACTICE 4A/MH

Provides further opportunity for students to develop skills which are associated with the nursing care of people experiencing biophysical or mental health dysfunction. Students practise the application of problem-solving skills, technical skills and health teaching skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences takes place in settings which include hospitals, palliative care facilities, and disability services or

psychiatric-mental health facilities.

Course: NS40

Co-requisites: NSB214, NSB401, NSB215 or NSB402

Credit Points: 8 Contact Hours: 3 per week

■ NSB471 CLINICAL PRACTICE 4B/MH

See NSB215.

Course: NS40 Co-requisites: NSB460 or NSB470

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ NSB504 PROFESSIONAL ISSUES IN NURSING 1

Nursing as a profession and the implications for nursing practice. Topics include: the nature of professions; the development of standards; quality assurance strategies; the significance of continuing education; nursing authorities and organisations; influences on the development of nursing as a profession; the future of professional nursing.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ NSB505 PROFESSIONAL ISSUES IN NURSING 2

The contemporary development of nursing as a profession is closely linked with an increasing focus on theory and theory development in nursing. This unit is designed to facilitate an understanding of the role that nursing theory plays within the discipline. Topics include: nature of nursing theory; the development of theory in nursing, and factors which have been influential in this process; and an overview of nursing theories and models including selected applications to practice.

Course: NS40

Credit Points: 8

Contact Hours: 3 per week

■ NSB560 CLINICAL PRACTICE 5A/BH

■ NSB561 CLINICAL PRACTICE 5B/BH

■ NSB570 CLINICAL PRACTICE 5A/MH

Provides the opportunity for students to develop a range of clinical skills associated with the Health Strand which was not chosen for study during the second year of the program. Students practise the application of problem-solving skills; selected technical skills; organising, health education, client advocacy skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this unit are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

Course: NS40

Co-requisites: NSB214, NSB215

Credit Points: 8

Contact Hours: 3 per week

■ NSB571 CLINICAL PRACTICE 5B/MH

Provides students with the opportunity to consolidate skills which they have acquired in previous units, particularly NSB560/NSB570. It aims at the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in clinical (off-campus) laboratories, and the settings are as described for the preceding clinical practice units.

Course: NS40 Co-requisites: NSB560 or NSB570

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ NSB601 RESEARCH IN NURSING PRACTICE

An understanding of components of the research process is essential in the development of an informed approach to contemporary nursing practice; topics

include: significance of research in nursing; process of research; and appraisal of research reports.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ **NSB660 CLINICAL PRACTICE 6A/BH**

■ **NSB661 CLINICAL PRACTICE 6B/BH**

■ **NSB670 CLINICAL PRACTICE 6A/MH**

Provides students with the opportunity to develop further clinical skills associated with the Health Strand studied in the third year of the program. Students practise the application of problem-solving skills; selected technical skills; organising, health education, advocacy and counselling skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this unit are undertaken in settings which include hospitals, palliative care facilities and/or psychiatric-mental health facilities.

Course: NS40

Co-requisites: NSB214, NSB215

Credit Points: 8

Contact Hours: 3 per week

■ **NSB671 CLINICAL PRACTICE 6B/MH**

See NSB215.

Course: NS40

Co-requisite: NSB614

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

■ **NSN406 DISSERTATION**

This study represents an independent piece of research completed with the guidance of a supervisor. The dissertation provides an opportunity for coursework conducted in the area of specialisation to be applied in a practical manner reflecting the student's specific interest in nursing. The third section of the three step-locked dissertation units in the Master of Nursing.

Course: NS85

Credit Points: 24

■ **NSN411 RESEARCH SEMINAR**

This unit is the first of three step-locked dissertation units. It provides the student with the opportunity to produce a well researched and indepth literature review in the area of the dissertation topic.

Course: NS64, NS85

Credit Points: 12

Contact Hours: 3 per week

■ **NSN412 RESEARCH PROJECT**

Students design and implement research and gather and analyse data. This is the second of three step-locked dissertation units in the Master of Nursing.

Course: NS85

Credit Points: 12

■ **NSN501 ADVANCED CLINICAL STRATEGIES**

This unit provides registered nurses with advanced skills in the area of clinical problem solving across a variety of clinical contexts. Students undertake the unit in the initial stages of their specialisation course, and the knowledge and skills which they develop are extended and applied through the specialty units. Students develop advanced problem solving and assessment skills, reflect upon contextual influences on the health experiences of clients, demonstrate advanced skills in applying interpreted data to client care situations and critically evaluate clinical performance and client care.

Courses: NS64, NS85

Credit Points: 12

Contact Hours: 3 per week

■ **NSN502 NURSING KNOWLEDGE**

Students explore content related to the historical and current development of nursing knowledge. Contemporary nursing practice is examined in relation to the development of nursing as a discipline in order to assist each student to reflect upon their conceptions of nursing as a field of study and practice.

Courses: NS64, NS85

Credit Points: 12

Contact Hours: 3 per week

■ **NSN505 QUANTITATIVE APPROACHES TO NURSING RESEARCH**

Students develop skills in research design and data collection processes related to clinical phenomena. Students have the opportunity to apply statistical concepts and a computer package to the analysis of numerical data.

Course: NS64, NS85

Credit Points: 12

Contact Hours: 3 per week

■ **NSN506 CLINICAL PROJECT**

Offers students the opportunity to implement a project of clinical relevance. It advances and extend the student's learning within their clinical speciality and provide opportunities to integrate knowledge from the clinical and theoretical units.

Course: NS85

Credit Points: 24

■ **NSN507 CONTEMPORARY ISSUES IN NURSING**

This unit explores, through the application of relevant theoretical frameworks, contemporary political insight, social, economic and organisational issues in nursing practice. These issues have a major impact on the context within which nurses provide care. The unit content provides students with a body of knowledge to support their further development in the discipline and practice of nursing.

Courses: NS64, NS85

Credit Points: 12

■ **NSN508 ADVANCED READINGS IN NURSING**

Provides the opportunity for students to review and analyse a body of literature relevant to an area of individual interest in nursing. This enable students to extend their knowledge and understanding a topic which is not specifically addressed elsewhere in the course.

Courses: NS64, NS85

Credit Points: 12

■ **NSN509 SPECIAL TOPIC**

Provides the opportunity for students to engage in a group learning process to explore, in depth, an area of professional relevance which may be from local or visiting scholars with particular expertise or knowledge of specific areas.

Courses: NS64, NS85

Credit Points: 12

■ **NSN521 CLINICAL SPECIALISATION 1**

Provides an introduction to the theory, process and practice of nursing in a designated specialty area. Although a range of knowledge and skills is addressed, an emphasis is placed upon health promotion within the context of a specialty area of health care. Develops in students an understanding of nursing practice in a designated specialty area; explores the theoretical, conceptual and practical knowledge required to provide effective nursing care.

Courses: NS64, NS85

Credit Points: 12

■ **NSN522 CLINICAL SPECIALISATION 2**

Develop students' understanding of the theory, process and practice of nursing in a designated specialty area of nursing. Although a health promotion framework is reinforced, the emphasis in this unit is placed on the development of strategies to assist clients who are experiencing particular health dysfunctions. Further develops an understanding of nursing practice in a designated specialty area; explores the theoretical, conceptual and practical knowledge required to provide effective nursing care.

Courses: NS64, NS85

Credit Points: 12

■ NSN523 CLINICAL SPECIALISATION 3

Provides the opportunity for students to further develop and consolidate professional knowledge and skills which have been acquired during the previous clinical units. Students are facilitated to incorporate theoretical, conceptual and practical knowledge into the assessment, planning, implementation and evaluation of the care required by clients. They are expected to demonstrate competent clinical judgment, decision making and technical ability in a specialty area of practice, provide client education based on identified learning needs and conduct a case conference in a manner which fosters intellectual inquiry and creative thought.

Courses: NS64, NS85

Credit Points: 12

■ NSN581 CLINICAL STUDIES 1

An exploration of nursing practice in specialty areas of health care at a level which is not possible within the ambit of introductory studies. It enables students to address current trends, changing perspective of practice and issues of national and international significance. The broad perspective which is utilised in this unit equips students to select a specific area(s) of practice to be examined in more detail in NSN582 and NSN583.

Courses: NS64, NS85

Credit Points: 12

■ NSN582 CLINICAL STUDIES 2

Provides students with the opportunity to build upon their learning in NSN581 by choosing an area of specialised nursing practice which they would like to explore and examine in greater detail. This allows students to deepen their appreciation of the clinical issues which relate to their practice in a particular specialty area of nursing.

Courses: NS64, NS85

Credit Points: 12

■ NSN583 CLINICAL STUDIES 3

Designed to complement NSN581 and NSN582. Enables the student to examine, from a clinical perspective, an area of specialised nursing practice. This approach not only develops student's awareness of the theoretical aspects of nursing issues, but highlights the clinical implications as well. Provides the opportunity for students to further develop clinical skills which complement their theoretical knowledge of the selected area.

Courses: NS64, NS85

Credit Points: 12

■ OPB210 OPTOMETRY 2

Development of optometry and optometric education; legal standing and scope of service; role of health care services; professionalism and ethical behaviour; professional bodies and relationships with other professions; future of optometry.

Course: OP42

Credit Points: 4

Contact Hours: 2 per week

■ OPB232 OPHTHALMIC OPTICS 2

Optical concepts, refraction and notation; neutralisation, transportation, prismatic effects, multifocals; frame and lens materials, quality, dimensions; vertometers, ordering, prescription writing; protection against radiation and mechanical hazards; special lens types.

Course: OP42

Prerequisite: OPB132

Credit Points: 12

Contact Hours: 4 per week

■ OPB312 VISUAL SCIENCE 3

The performance of the eye as an optical system is considered in the context of ocular aberrations, refractive errors and image formation and quality. An introduction to visual performance characteristics includes absolute and relative thresholds, dark and light adaptation and relative luminous efficiency curves.

Course: OP42

Prerequisite: PHB240

Co-requisite: PHB340

Credit Points: 12

Contact Hours: 5 per week

■ OPB401 OCULAR & REGIONAL ANATOMY

The gross anatomy of the head and neck region with particular reference to the central nervous system. The macroscopic and microscopic anatomy of the orbit, extraocular muscles, eyelids, lacrimal apparatus, cornea, conjunctiva, sclera, uveal tract, lens, retina, optic nerve, aqueous, vitreous and the neural pathways and vascular circulation. Ocular embryology.

Course: OP42

Prerequisite: LSB351

Co-requisites: LSB451, OPB412

Credit Points: 10

Contact Hours: 4 per week

■ OPB405 CLINICAL OPTOMETRY 4

Provides students with an understanding of the scope of clinical practice. Students are taught the basics of communicating with patients, how to understand prescriptions and frame selection and adjustment procedures. Measurement of vision, and correct recording procedures will also be covered.

Course: OP42

Prerequisite: OPB320

Co-requisite: OPB412

Credit Points: 4

Contact Hours: 2 per week

■ OPB412 VISUAL SCIENCE 4

Visual performance is examined with respect to its spatial and temporal characteristics. Perceptual aspects of vision as well as binocular and colour vision performance characteristics.

Course: OP42

Prerequisites: OPB312, PHB340

Co-requisite: OPB401

Credit Points: 12

Contact Hours: 5 per week

■ OPB415 OCULAR PHYSIOLOGY

All aspects of ocular physiology including the vegetative physiology of various ocular structures, visual neurophysiology and an introduction to electrophysiological techniques.

Course: OP42

Prerequisites: LSB230, LSB451

Co-requisite: OPB430

Credit Points: 12

Contact Hours: 4 per week

■ OPB504 OPHTHALMIC OPTICS 5

A continuation of OPB132, emphasising problems with spectacle lenses. Practical application of theory to ophthalmic dispensing in the laboratory.

Course: OP42

Prerequisites: OPB132, PHB340

Credit Points: 6

Contact Hours: 4 per week

■ OPB505 CLINICAL OPTOMETRY 5

The clinical application of techniques learnt in OPB509 (studied concurrently) in the management of patients presenting for eye examinations.

Course: OP42

Prerequisite: OPB412

Co-requisites: OPB509, OPB508, OPB527

Credit Points: 8

Contact Hours: 4 per week

■ OPB508 OCULAR PHYSIOLOGY

All aspects of ocular physiology including the vegetative physiology of various ocular structures, visual neurophysiology and an introduction to electrophysiological techniques.

Course: OP42

Prerequisites: OPB412, OPB401

Co-requisites: OPB509, OPB505, OPB527

Credit Points: 8

Contact Hours: 4 per week

■ OPB509 OPTOMETRY 5

The theory and practice of clinical procedures which are used in eye examinations.

Course: OP42

Prerequisites: OPB412, OPB401

Co-requisites: OPB508, OPB505, OPB527

Credit Points: 18

Contact Hours: 9 per week

■ OPB527 DISEASES OF THE EYE 5

The detection, diagnosis, referral and management of ocular disease. General pathological considerations. The writing of reports, referral letters and referral procedures. The nature, aetiology and management of congenital, developmental, dystrophic and degenerative anomalies of the external and internal ocular structures and ocular adnexae. The ocular manifestation of systemic disease including cardiovascular, metabolic, endocrine, central nervous system and malnutritional disorders.

Course: OP42

Prerequisites: LSB491, OPB401, LSB451

Co-requisites: OPB505, OPB508, OPB509

Credit Points: 8 **Contact Hours:** 3 per week

■ OPB605 CLINICAL OPTOMETRY 6

The continuation of OPB505. The clinical application of techniques learnt in OPB509 and OPB609 (studied concurrently) in the management of patients presenting for eye examinations.

Course: OP42

Prerequisite: OPB505

Co-requisites: OPB608, OPB609, OPB627

Credit Points: 8 **Contact Hours:** 4 per week

■ OPB608 OCULAR PHARMACOLOGY

General pharmacological principles are presented as background to a study of pharmacological profiles of ophthalmic preparations; both diagnostic and topical therapeutic agents are considered. Particular emphasis is placed on those ophthalmic drugs used to facilitate an eye examination.

Course: OP42

Prerequisites: OPB508, OPB509

Co-requisites: OPB605, OPB609, OPB627, OPB617

Credit Points: 6 **Contact Hours:** 3 per week

■ OPB609 OPTOMETRY 6

Continuation of the theory and practice of routine and advanced clinical procedures which are used when conducting a complete eye examination. Areas include the management of binocular vision anomalies, methods of examining the visual fields and the measurement of intra-ocular pressure.

Course: OP42

Prerequisites: OPB508, OPB509

Co-requisites: OPB608, OPB605, OPB627, OPB617

Credit Points: 16 **Contact Hours:** 8 per week

■ OPB617 CONTACT LENS STUDIES 6

An introduction to the basic concepts of contact lens fitting. Areas covered include contact lens instrumentation, contact lens materials and designs, fitting and consultation techniques. The practical component of the unit focuses upon the fitting of contact lenses.

Course: OP42

Prerequisites: OPB509, OPB505, OPB527

Co-requisites: OPB609, OPB605, OPB627, OPB608

Credit Points: 6 **Contact Hours:** 2 per week

■ OPB627 DISEASES OF THE EYE 6

A continuation of OPB527. The anatomical, physiological and pathological aspects of glaucoma. Its symptomatology, methods of detection and diagnosis, management and prognosis. Inflammatory diseases, trauma and tumours of the external and internal ocular structures and ocular adnexae.

Course: OP42

Prerequisite: OPB527

Co-requisites: OPB605, OPB608, OPB609, OPB617

Credit Points: 8 **Contact Hours:** 4 per week

■ OPB705 CLINICAL OPTOMETRY 7

This is the clinical application of the procedures studied in OPB609 and OPB709, and includes the management of patients in the clinical situation.

Course: OP42

Prerequisite: OPB605

Co-requisites: OPB709, OPB717, OPB750

Credit Points: 24 **Contact Hours:** 13 per week

■ OPB709 OPTOMETRY 7

Continuation of OPB609 and provides knowledge and understanding of the theory and clinical procedures involved in paediatric optometry, low vision, colour vision and aniseikonia.

Course: OP42 **Prerequisites:** OPB609, OPB750

Co-requisites: OPB705, OPB717

Credit Points: 10 **Contact Hours:** 5 per week

■ OPB717 CONTACT LENS STUDIES 7

A series of lectures and practical sessions in advanced aspects of contact lens practice. Topics include the physiological consequences of contact lens wear; management of contact lens patients; fitting of lenses for keratoconus, extended wear and presbyopia. Practical sessions provide training in advanced diagnostic and fitting techniques.

Course: OP42

Prerequisite: OPB617

Co-requisites: OPB705, OPB709, OPB750

Credit Points: 6 **Contact Hours:** 2 per week

■ OPB750 PROJECT

Students are required to undertake project work in Year 4, Semesters 1 and 2 working in groups of up to three on projects of their own choosing or on a topic chosen from a suggested list. Topics must be original. Students conduct a literature search (including a computer-based search in conjunction with a reference librarian) decide on the experimental hypotheses, plan and execute the experiment, analyse the results and write a report in manuscript form which it is hoped is suitable for publication in the open literature. Oral presentations are given by each group to their peers, third year students and staff, as part of a formal Year 4, Semester 2 colloquium.

Course: OP42

Co-requisites: OPB709, MAB258, OPB705, OPB717

Credit Points: 10 **Contact Hours:** 2 per week

■ OPB803 OCCUPATIONAL/PUBLIC HEALTH OPTOMETRY

A course of study to introduce the basic concepts of eye safety and visual ergonomics. Content includes eye safety programs, occupational vision screening, legal aspects of eye safety, eye hazards: traumatic, radiation and chemical, eye protection, visual ergonomics and illumination engineering.

Course: OP42

Prerequisite: OPB709

Co-requisites: OPB805, OPB750

Credit Points: 6 **Contact Hours:** 2 per week

■ OPB805 CLINICAL OPTOMETRY 8

A continuation of OPB705. This unit places emphasis on the students' decision-making skills in the evaluation, care and treatment of patients who may have a wide range of visual disorders.

Course: OP42

Prerequisites: OPB705, OPB717, OPB709

Co-requisites: OPB750, OPB803

Credit Points: 32 **Contact Hours:** 17 per week

■ OPB807 PRACTICE MANAGEMENT

Optometry's role in health care; professional and ethical behaviour; relevant State and Federal Acts; professional associations; types of practice; optometric practice and the law.

Course: OP42

Credit Points: 4 **Contact Hours:** 2 per week

■ OPN601 ADVANCED CONTACT LENS STUDIES

Instruction in specialised fitting techniques, including keratoconus, scleral lenses and prosthetics. There is also an emphasis on the design, manufacture and modification of lenses. The physiology and pathology

associated with contact lens wear is also covered in detail.

Course: HL88

Credit Points: 12 **Contact Hours:** 3 per week

■ OPN602 ADVANCED CLINICAL METHODS

Exploration of the techniques for the examination of the eye and visual function. Topics include: visual fields; static automated perimetry; screening versus threshold methods and their interpretation; modelling and trend analysis of visual field data; the visual field in glaucoma; contrast sensitivity function; alternative tests and their interpretation; clinical applications of contrast sensitivity function testing; colour vision; current research in congenital and acquired disorders; clinical tests, their application and interpretation; the design of colour vision screening procedures; entoptic phenomena and their application as diagnostic tools; advanced slit lamp biomicroscopy, gonioscopy, photography and fundus examination; other advanced methods of examination such as ultrasonography, dark adaptation, motion sensitivity, eye movement studies and electrophysiology.

Course: HL88

Credit Points: 12 **Contact Hours:** 3 per week

■ OPN603 ADVANCED OCULAR PHARMACOLOGY

Exploration of the use of drugs for the treatment of eye diseases. The unit does not seek to qualify optometrists to use these drugs, nor to impart the clinical skills or procedures necessary for such a scope of practice; instead, it will supply the background knowledge and understanding of current theoretical and practical research concepts in therapeutics so essential to complement this evolution in health care. Topics include: the anatomy, physiology and pathology of tissue changes in relevant eye diseases; neurohumoral transmission – current concepts in receptor dynamics; the actions of systemic drugs; including antihypertensive, antiarthritic, asthma, antidepressant and anti-anxiety drugs; the actions and uses of drugs for the treatment of eye disease such as infections, inflammation, allergy and glaucoma; current research into treatment strategies for eye disease; optometry and therapeutic care.

Course: HL88

Credit Points: 12 **Contact Hours:** 3 per week

■ OPN604 PAEDIATRIC OPTOMETRY

Early child development, normal and abnormal visual development; epidemiology of visual handicap in childhood; effect of visual impairment on the family; support services; advanced examination techniques for the paediatric patient; multidisciplinary approach to management of the learning disabled child. Assessment is by research project.

Course: HL88

Credit Points: 12 **Contact Hours:** 3 per week

■ PHA154 INTRODUCTORY PHYSICS

An introduction to the basic concepts involved in the study of linear mechanics, ideal gases, liquids and solids, elasticity, surface tension, temperature and its measurements, heat content, heat transfer, reflection and refraction of light at plane surfaces, use of lenses in simple optical instruments, current electricity, e.m.f. resistance, circuit analysis, heating effects, electrical measurements using moving coil galvanometers, potentiometers and Wheatstone bridge, magnetic field with simple applications. A series of laboratory experiments emphasises the above concepts.

Course: LS12

Credit Points: 8 **Contact Hours:** 3 per week

■ PHA213 MEDICAL INSTRUMENTATION 2

Basic concepts and procedures in diagnostic instrumentation; transducer principles; characteristics of physiological signals; methods of measurement and instrumentation principles. Hospital visits may be included.

Course: LS12

Credit Points: 8

Prerequisite: PHA154

Contact Hours: 4 per week

■ PHB001 INTRODUCTORY PHYSICS

Gives students without Senior Physics a basic grounding. Topics include: kinematics, mechanics, electricity and magnetism.

Course: SC30

Credit Points: 6

Contact Hours: 3 per week

Incompatible with: SA or better in Senior Physics.

■ PHB111 PHYSICS 1B

A course of lectures and laboratory work on AC and DC circuit theory, electronics, vibrations and waves, sound, geometrical optics.

Course: PH38 **Prerequisites:** SA – Senior Physics.

Co-requisites: PHB001 unless Senior Physics has been undertaken.

Credit Points: 8

Contact Hours: 3 per week

■ PHB122 PHYSICS 1

A course of lectures and laboratory work on data analysis, kinematics and mechanics, DC and AC circuit theory, electronics, vibrations and waves, sound, geometrical optics and physical optics.

Courses: CH32, ED50, OP42, SC30

Prerequisites: SA – Senior Physics

Co-requisites: PHB001 or SA – Senior Physics

Credit Points: 12

Contact Hours: 5 per week

■ PHB132 ENGINEERING PHYSICS 1A

A basic unit in the physics of waves and optics; moving and stationary waves in various media, interference of waves, beats acoustics and shock waves and measurement of sound; geometrical and physical optics including reflection, refraction, dispersion, interference and diffraction, polarisation, optical instruments, design and resolution, and photometry.

Courses: CE42, EE43, EE44, IF23, IF53, ME23, ME45, ME46

Credit Points: 6

Contact Hours: 3 per week

■ PHB134 ENGINEERING PHYSICS 1B

A basic unit in the physics of waves and optics: moving and stationary waves in various media, interference of waves, beat acoustics and shock waves and measurement of sound; geometrical and physical optics including reflection, refraction, dispersion, interference and diffraction, polarisation, optical instruments, design and resolution, and photometry.

Courses: CE42, EE43, EE44, IF23, IF52, IF54, IF56, ME23, ME45, ME46

Credit Points: 8

Contact Hours: 3 per week

■ PHB144 APPLIED SCIENCE FOR DESIGNERS 1

Physics for environmental design: light and colour; heat and energy transfer, solar energy physics, sound and acoustics, electricity, magnetism and electronics for the built environment.

Courses: BN30, PU49

Credit Points: 6

Contact Hours: 3 per week

■ PHB150 PHYSICS 1H

Basic physical measurements; mechanics; fluids; heat; vacuum physics; waves, acoustics, ultrasonics and optics, and the instrumentation used to measure biological parameters.

Courses: LS36, PU42, PU44, PU45, SC30

Credit Points: 12

Contact Hours: 6 per week

■ PHB172 PHYSICS FOR SURVEYORS

Mechanics; physics of materials; physics of the lower atmosphere; sound; electromagnetic fields; topics in electronics.

Courses: IF52, IF54, PS47

Credit Points: 6 Contact Hours: 3 per week

■ PHB178 PRINCIPLES OF MEDICAL RADIATIONS

Principles of medical imaging and methods of detection, diagnosis and treatment of cancer.

Course: PH38

Credit Points: 12 Contact Hours: 6 per week

■ PHB222 PHYSICS 2

A course of lectures and laboratory work on mechanical properties of matter, fluids, gravitational fields, electromagnetic fields, thermal physics and quantum radiation physics.

Courses: ED50, OP42, SC30

Prerequisites: SA – Senior Physics

Co-requisites: PHB001 unless SA - Senior Physics

Credit Points: 12 Contact Hours: 5 per week

■ PHB234 ENGINEERING PHYSICS 2B

The physics of heat and properties of matter; including the kinetic theory of gases, temperature scales and thermometers, heat and heat measurement, thermodynamics and the molecular properties of matter; gravitational fields; basic radiation physics.

Courses: CE42, EE43, EE44, IF23, IF56, ME23, ME45, ME46

Credit Points: 8 Contact Hours: 3 per week

■ PHB240 OPTICS 2

The principles of geometrical optics as they apply to rectilinear propagation, reflection and refraction for paraxial rays for monochromatic light for single surfaces, thin lenses, cylindrical, spherocylindrical and toric lenses, lens systems in air, the eye and a selection of optical instruments; study of the optics of monochromatic and chromatic aberrations and of photometry and colour.

Course: OP42

Prerequisite: PHB150

Co-requisite: OPB132

Credit Points: 12 Contact Hours: 7 per week

■ PHB252 KINESIOLOGY & BIOMECHANICS

Principles, methods and interpretation of measurement of human movement, particularly associated with the lower limb; principles of lower limb function (standing, walking and running).

Course: PU45

Credit Points: 8 Contact Hours: 2 per week

■ PHB262 PHYSICS 2L

Extension of PHB150 including AC, DC circuit theory, with emphasis on electronics and instrumentation, fields, modern and nuclear physics.

Course: LS36, PU45

Credit Points: 8 Contact Hours: 4 per week

■ PHB263 PHYSICS 2E

Extension of PHB150 including AC, DC circuit theory, with emphasis on electronics and instrumentation, fields, modern and nuclear physics. Fluids.

Courses: ED50, PU42, PU44, PU45, SC30

Credit Points: 12 Contact Hours: 6 per week

■ PHB272 RADIATION PHYSICS 1

Electrostatics, electromagnetism, the production of X-rays and their interaction with matter.

Course: PH38

Credit Points: 12 Contact Hours: 5 per week

■ PHB275 PROCESSING TECHNOLOGY

A study of the processes involved in the production of a visible image in radiography, including: latent image formation, processing, techniques and equipment relevant to radiography.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ PHB276 GENERAL RADIOGRAPHY 1

A program of lectures and practical sessions relating to radiography of the skeletal system.

Course: PH38 Prerequisites: LSB141, PHB178

Co-requisite: LSB241

Credit Points: 12 Contact Hours: 6 per week

■ PHB278 GENERAL RADIOGRAPHY PRACTICE 1

A program of lectures and practical sessions relating to radiography of the skeletal system.

Courses: PH38, PH90

Credit Points: 8 Contact Hours: 3 per week

■ PHB286 TREATMENT PLANNING 1

Introduction to the techniques of radiotherapy treatment planning.

Course: PH38

Credit Points: 12 Contact Hours: 6 per week

■ PHB287 MEGAVOLTAGE THERAPY 1

Introduction to the basic techniques of radiotherapy including beam direction and defining devices.

Course: PH38 Prerequisites: PHB125, PHB178

Credit Points: 8 Contact Hours: 4 per week

■ PHB313 RADIOGRAPHIC IMAGE INTERPRETATION

Image formation in medical radiography, and the significance of diagnostic techniques and their image appearances in assessment of the lower extremity.

Course: PU45

Credit Points: 8 Contact Hours: 3 per week

■ PHB322 PHYSICS 3A

Laplace Transforms; SHM; damped harmonic motion; forced oscillations; coupled oscillations; wave transmission and reflection; wave systems; AC circuit analysis; power; network analysis; resonance; AC measurements.

Courses: ED50, SC30

Prerequisites: MAB222, PHB122, PHB222

Co-requisite: MAB432

Credit Points: 12 Contact Hours: 5 per week

■ PHB332 PHYSICS 3B

Covers any two of the following: optics, electronics, materials, experimental physics.

Courses: ED50, SC30

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12 Contact Hours: 5 per week

■ PHB340 OPTICS 3

The application of geometrical optics to selected aspects of optometry including lens form and thickness, contact lenses, spectacle lens design and spherical surfaces; the wave nature of light with emphasis on interference, interferometry, diffraction and polarisation; the specialised topics of optical processing, lasers and the evaluation of optical systems.

Course: OP42

Prerequisites: PHB222, PHB240

Credit Points: 12 Contact Hours: 7 per week

■ PHB342 PHYSICS 3C

See PHB332.

Courses: ED50, SC30

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12 Contact Hours: 5 per week

■ **PHB373 NUCLEAR MEDICINE IMAGING 1**
The principles, equipment and applications of nuclear medicine imaging.

Courses: PH38, PH90

Credit Points: 4 Contact Hours: 2 per week

■ **PHB374 RADIOGRAPHIC EQUIPMENT 1**

Discussion of design considerations of X-ray generators and equipment for control of beam direction.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

■ **PHB376 GENERAL RADIOGRAPHY 2**

An extension of topics introduced in PHB276 to include more advanced techniques of skeletal radiography, ward and operating theatre radiography, and examinations using contrast media.

Course: PH38

Prerequisites: LSB241, PHB276, PHB279

Credit Points: 12 Contact Hours: 5 per week

■ **PHB379 CLINICAL RADIOGRAPHY 2**

Clinical experiences in radiographic examinations introduced in PHB276 and PHB376. Experience is obtained in approved clinical departments.

Course: PH38

Prerequisites: LSB242, PHB276, PHB279

Credit Points: 10 Contact Hours: 5 per week

■ **PHB382 RADIOTHERAPY PHYSICS 1**

A study of the design, physical aspects and operating characteristics of megavoltage and telecurie units.

Course: PH38

Prerequisite: PHB272

Credit Points: 4 Contact Hours: 2 per week

■ **PHB386 TREATMENT PLANNING 2**

An extension of the study of treatment planning introduced in PHB286 to the planning of complex techniques of photon therapy and electron therapy.

Course: PH38

Prerequisites: PHB286, LSB241

Credit Points: 8 Contact Hours: 4 per week

■ **PHB387 MEGAVOLTAGE THERAPY 2**

The principles and applications of megavoltage therapy including techniques for specific sites.

Course: PH38

Prerequisites: LSB241, PHB287

Credit Points: 10 Contact Hours: 5 per week

■ **PHB389 CLINICAL RADIOTHERAPY 2**

Practical exercises in megavoltage therapy related to topics introduced in PHB287 and PHB387. The programs are carried out in clinical departments.

Course: PH38

Prerequisites: LSB241, PHB287

Co-requisite: PHB387

Credit Points: 10 Contact Hours: 5 per week

■ **PHB404 SAFETY TECHNOLOGY 2**

Vibration and noise, electrical hazards, sources and hazards of ionising and non-ionising radiation.

Course: PU44

Prerequisites: PHB250 or PHB262

Credit Points: 12 Contact Hours: 6 per week

■ **PHB422 PHYSICS 4A**

Any two of the following: thermodynamics and statistics, mechanics, radiation physics, astronomy and astrophysics, relativity and fluids, electronics.

Courses: ED50, SC30

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12 Contact Hours: 5 per week

■ **PHB432 PHYSICS 4B**

See PHB422.

Courses: ED50, SC30

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12 Contact Hours: 5 per week

■ **PHB462 EXPERIMENTAL PHYSICS 4**

Experimental method and design; electronics; preparation and presentation of reports; group project.

Course: SC30

Prerequisites: At least two level 2 Physics units including electronics module

Credit Points: 12 Contact Hours: 5 per week

■ **PHB471 RADIATION PHYSICS 2**

A study of the philosophy and protocol of radiation protection. The question of protection is treated in a manner which brings into perspective the details of protection dealt with in other units of the course.

Courses: PH38, PH90

Credit Points: 4 Contact Hours: 2 per week

■ **PHB473 MEDICAL ULTRASOUND**

The physical principles and application of ultrasound.

Courses: PH38, PH90

Credit Points: 4 Contact Hours: 2 per week

■ **PHB474 RADIOGRAPHIC EQUIPMENT 2**

A study of the equipment used in specialised radiography; including mobiles, tomographic units, skull tables and mammography units.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ **PHB475 MEDICAL RADIATION COMPUTING 1**

An introduction to the capabilities of computer hardware and software, and image processing.

Courses: PH38, PH90

Credit Points: 8 Contact Hours: 3 per week

■ **PHB476 SPECIAL PROCEDURES**

Specialised techniques of radiography: the skull, obstetrics, gynaecology, CNS and paediatrics.

Course: PH38

Prerequisites: PHB376, PHB378

Credit Points: 8 Contact Hours: 3 per week

■ **PHB479 CLINICAL RADIOGRAPHY 3**

Clinical experience in approved departments in radiographic examinations discussed in PHB376.

Course: PH38

Prerequisites: PHB476, PHB379

Credit Points: 8 Contact Hours: 4 per week

■ **PHB481 DOSIMETRY**

A study of the measurement and dosimetry of external beam X-ray and gamma ray radiotherapy.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

■ **PHB482 RADIOTHERAPY PHYSICS 2**

A study of radioactivity including methods of radiation detection, radioactive equilibrium and production of radioisotopes, the principles of brachytherapy.

Course: PH38

Prerequisite: PHB382

Credit Points: 6 Contact Hours: 3 per week

■ **PHB484 PRINCIPLES OF TREATMENT 1**

The principles underlying the choice of treatment of cancer in specific sites including consideration of associated treatment.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

■ **PHB487 MEGAVOLTAGE THERAPY 3**

An extension of the topic introduced in PHB387 to include the full range of treatment by megavoltage therapy for cancer in specific sites. Consideration includes techniques, planning, patient positioning, outlines and measurements.

Course: PH38

Prerequisites: PHB387, PHB389

Credit Points: 10 Contact Hours: 4 per week

■ PHB489 CLINICAL RADIOTHERAPY 3

Clinical experiences in approved departments in techniques of megavoltage therapy.

Course: PH38 Prerequisites: PHB387, PHB389

Co-requisite: PHB487

Credit Points: 8 Contact Hours: 4 per week

■ PHB500 ADVANCED RADIOGRAPHIC PRACTICE 1

The content of this unit includes topics from a number of areas and is designed to complement the particular background of persons undertaking the conversion program.

Course: PH90

Credit Points: 14

■ PHB504 INSTRUMENTATION

Transducers; noise, guarding and shielding; signal conditioning; digital filters; intelligent instruments and standard busses.

Course: ME46

Credit Points: 8 Contact Hours: 3 per week

■ PHB512 PROJECT

Projects are undertaken in a wide range of topics normally submitted by staff. They are commonly related to School of Physics research activities in materials science, health and medical physics and instrumentation, and may involve an extension of existing knowledge and technique or an introductory investigation into a new procedure.

Courses: ED50, SC30

Prerequisites: At least 3 third level Physics units.

Credit Points: 12 Contact Hours: 5 per week

■ PHB522 APPLIED QUANTUM MECHANICS

Schrödinger equation, potential wells, hydrogen atom, angular momentum, perturbation theory, atomic and molecular spectra, Zeeman effects, line broadening phenomena, spectroscopy, lasers.

Course: SC30

Prerequisites: MAB432, MAB452, PHB322

Credit Points: 12 Contact Hours: 5 per week

■ PHB532 ELECTROMAGNETIC FIELD THEORY

Static field theory: electric and magnetic fields. Solution of problems by analytic and non-analytic methods. Dielectrics. Magnetic materials. Electromagnetic wave theory: time-varying fields, Maxwell's equation, displacement current, electromagnetic energy density. Wave equation and solutions, boundary conditions, reflection and refraction of waves. Wave guides and radiation theory.

Course: SC30 Prerequisites: PHB322, MAB452

Credit Points: 12 Contact Hours: 5 per week

■ PHB542 APPLIED ACOUSTICS

Environmental and occupational noise. Architectural and building acoustics. Generation and detection of ultrasound; applications in medicine and industry fields.

Courses: ED50, SC30

Prerequisites: Second level Acoustics

Credit Points: 12 Contact Hours: 5 per week

■ PHB562 PHYSICAL METHODS OF ANALYSIS

X-ray diffraction: qualitative and quantitative analysis, texture and stress analysis. X-ray fluorescence. Electron microscopy: transmission electron microscopy, scanning electron microscopy, electron probe microanalysis. Theory, instrumentation and application of atomic emission and absorption spectroscopy, mass spectrometry and gas chromatography, infra-red and Raman spectroscopy, nuclear

magnetic resonance spectroscopy and surface analysis techniques (Auger electron spectroscopy, x-ray photoelectron spectroscopy, secondary ion mass spectrometry).

Courses: ED50, SC30

Prerequisite: PHB342

Credit Points: 12 Contact Hours: 5 per week

■ PHB570 ADVANCED RADIOGRAPHIC PRACTICE 1

The content of this unit includes topics from a number of areas and is designed to complement the particular background of persons undertaking the conversion program.

Course: PH90

Credit Points: 20

■ PHB571 QUALITY ASSURANCE/IMAGE EVALUATION

The principles and techniques used in the quality assurance of medical imaging apparatus and ancillary equipment.

Course: PH90

Credit Points: 8 Contact Hours: 4 per week

■ PHB572 IMAGE RECORDING & EVALUATION

Lectures and practical exercises on non-film image formation evaluation. Information theory.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ PHB573 DIGITAL IMAGING MODALITIES

The principles, methods and applications of CT, digital radiography and MRI in medical imaging.

Courses: PH38, PH90

Credit Points: 6 Contact Hours: 2 per week

■ PHB574 QUALITY ASSURANCE IN MEDICAL IMAGING

A study of the principles and techniques used in the quality assurance of medical imaging apparatus and ancillary equipment.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

■ PHB575 MEDICAL RADIATION COMPUTING 2

Applications of computers in image processing and radiotherapy.

Course: PH38, PH90

Credit Points: 8 Contact Hours: 3 per week

■ PHB576 ADVANCED RADIOGRAPHIC TECHNIQUE 1

A study of the principles and techniques used in advanced radiographic techniques including angiography, the salivary glands, arthrography, sinography, arteriography and venography.

Course: PH38 Prerequisites: PHB476, PHB479

Co-requisite: PHB578

Credit Points: 12 Contact Hours: 6 per week

■ PHB578 IMAGE INTERPRETATION

Lectures and practical exercises on image interpretation including technical and diagnostic quality.

Courses: PH38, PH90

Credit Points: 4 Contact Hours: 2 per week

■ PHB579 CLINICAL RADIOGRAPHY 4

Clinical experience in special radiographic procedures as introduced in PHB476.

Course: PH38 Prerequisites: PHB476, PHB479

Credit Points: 8 Contact Hours: 4 per week

■ PHB583 COMPLEMENTARY & EVOLVING TECHNIQUES

The principles, strengths and stage of development of techniques which are complementary to radiotherapy

treatment of cancer including: hyperbaric O₂ therapy, neutron therapy, pi-meson therapy, chemotherapy, cryotherapy and hyperthermia.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

■ **PHB584 PRINCIPLES OF TREATMENT 2**

A continuation of the detailed discussion started in PHB484 to include the principles of treatment of cancer in all sites, and benign diseases.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ **PHB585 COMPUTER ASSISTED TREATMENT PLANNING 1**

A study of planning hardware and software to include two-dimensional planning. Development of concepts to an advanced level of understanding of computer-assisted optimisation of isodose distributions.

Courses: PH38, PH90

Credit Points: 8 Contact Hours: 3 per week

■ **PHB587 ORTHOVOLTAGE & SUPERFICIAL THERAPY**

The specialised techniques of orthovoltage and superficial radiotherapy.

Course: PH38 Prerequisites: PHB487, PHB489

Credit Points: 10 Contact Hours: 4 per week

■ **PHB589 CLINICAL RADIOTHERAPY 4**

Clinical experience in the techniques of radiotherapy employing orthovoltage and superficial therapy.

Course: PH38 Prerequisites: PHB487, PHB489

Co-requisite: PHB587

Credit Points: 12 Contact Hours: 6 per week

■ **PHB600 ADVANCED RADIOGRAPHIC PRACTICE 2**

See PHB500

Course: PH90

Credit Points: 12 Contact Hours: 4 per week

■ **PHB622 SOLID STATE PHYSICS**

Crystal structures and bonding, reciprocal lattice, Brillouin zones; mechanical and thermal properties of solids; free electron and band theory; semiconductors; magnetic properties of solids; dielectric properties of materials; amorphous materials.

Course: SC30

Prerequisites: Second level Materials, PHB422, PHB522

Credit Points: 12 Contact Hours: 5 per week

■ **PHB632 NUCLEAR & PARTICLE PHYSICS**

Nuclear reaction, nuclear model, particle physics, particle detectors and accelerators and applications.

Course: SC30 Prerequisites: PHB432, PHB522

Credit Points: 12 Contact Hours: 5 per week

■ **PHB642 APPLIED RADIATION & HEALTH PHYSICS**

Lectures and laboratory work on the topics: properties of ionising and non-ionising radiation. Detection and measurement techniques. Radiobiological effects of ionising and non-ionising radiation and health physics. Medical and industrial applications of radiation. Environmental radiation and radioactivity.

Course: SC30

Prerequisite: PHB432

Credit Points: 12 Contact Hours: 5 per week

■ **PHB662 TOPICS IN PHYSICS**

The content varies from year to year and is determined by current research advances and availability of staff. No more than four topics are included, so as to allow a reasonable cover of the material. Topics included in recent years: health and medical physics,

optoelectronics, geophysics, environmental physics and astrophysics.

Courses: ED50, SC30

Prerequisites: At least 36 credit points in second level physics units

Credit Points: 12

Contact Hours: 5 per week

■ **PHB670 ADVANCED RADIOGRAPHIC PRACTICE 2**

See PHB570.

Course: PH90

Credit Points: 20

■ **PHB671 RADIATION BIOLOGY**

A study of the biological effects on ionising and non-ionising radiation.

Courses: PH38, PH90

Credit Points: 4

Contact Hours: 2 per week

■ **PHB672 PROJECT**

A supervised project involving either application of existing theoretical practical knowledge or a literature survey of a selected relevant topic.

Courses: PH38, PH90

Credit Points: 12

■ **PHB673 PROJECT**

A supervised project involving either application of existing theoretical practical knowledge or a literature survey of a selected relevant topic.

Courses: PH38, PH90

Credit Points: 12

■ **PHB674 RADIATION SAFETY & BIOLOGY**

A study of the philosophy and protocol of radiation protection. The question of protection is treated in a manner which brings into perspective the details of protection dealt with in other units of the course. This biological effects on ionising and non-ionising radiation.

Courses: PH38, PH90

Credit Points: 8

Contact Hours: 4 per week

■ **PHB676 ADVANCED RADIOGRAPHIC TECHNIQUE 2**

An extension of topics in advanced radiographic technique introduced in PHB576 to include mammography, techniques for examination of the lymphatic system, and emerging techniques.

Course: PH38

Prerequisites: PHB576, PHB579

Credit Points: 8

Contact Hours: 3 per week

■ **PHB679 CLINICAL RADIOGRAPHY 5**

Clinical experience in advanced radiographic techniques.

Course: PH38, PH90

Prerequisites: PHB576, PHB579

Credit Points: 14

Contact Hours: 6 per week

■ **PHB680 NUCLEAR MEDICINE IMAGING 2**

Lectures, practical exercises and clinical experiences in nuclear medicine imaging. This unit expands on topics introduced in PHB373 and provides an indepth study of nuclear medicine imaging techniques.

Courses: PH38, PH90

Prerequisite: PHB373

Credit Points: 10

Contact Hours: 5 per week

■ **PHB681 COMPUTED TOMOGRAPHY IMAGING**

Lectures, practical exercises and clinical experiences in CT imaging; expands on topics introduced in PHB573; indepth study of CT imaging techniques.

Courses: PH38, PH90

Prerequisite: PHB573

Credit Points: 10

Contact Hours: 5 per week

■ **PHB683 ONCOLOGICAL IMAGING**

Principles and techniques of medical imaging used in the detection of cancer: CT, MRI, U/S and NM.

Courses: PH38, PH90

Credit Points: 6

Contact Hours: 3 per week

■ PHB685 COMPUTER ASSISTED TREATMENT PLANNING 2

The use of computers in the planning of non-standard and complex radiotherapy treatment including arc and rotation techniques, irregular field techniques, three-dimensional plans.

Courses: PH38, PH90

Credit Points: 8 Contact Hours: 4 per week

■ PHB687 SPECIALISED RADIOTHERAPY TECHNIQUE

Specialised radiotherapy techniques including techniques applicable to the child patient and patients with communicable disease, theatre procedures, total body photon and electron therapy.

Courses: PH38, PH90

Credit Points: 10 Contact Hours: 4 per week

■ PHB689 CLINICAL RADIOTHERAPY 5

Clinical experience in specialised radiotherapy treatment techniques.

Course: PH38

Prerequisite: PHB589

Co-requisite: PHB687

Credit Points: 8 Contact Hours: 4 per week

■ PHB705 PROJECT

A research project in which the student initiates and undertake an investigation of some magnitude and originality. Topics are related to research interests in the Centre for Medical and Health Physics.

Course: SC60

Credit Points: 48

■ PHB706 QUANTUM MECHANICS

Linear vector space and operators; the matrix in quantum mechanics; dynamic variables; equations of motion; approximation methods; potential scattering; angular momentum; applications.

Course: SC60

Credit Points: 12 Contact Hours: 4 per week

■ PHB707 ADVANCED MATERIALS

Amorphous and nanocrystalline structures; ceramics; metastable interstitial nitrides; composites; superconducting ceramics; fabrication techniques; testing and analysis of advanced materials; shock processing.

Course: SC60

Credit Points: 12 Contact Hours: 4 per week

■ PHB708 ADVANCED TOPICS IN PHYSICS

No more than three topics are included. The content is determined by current research advances, availability of appropriate staff, visiting academics etc and may vary from year to year.

Course: SC60

Credit Points: 12 Contact Hours: 4 per week

■ PHB789 ADVANCED RADIOTHERAPEUTIC PRACTICE 1

The content of this unit includes topics from a number of areas and is designed to complement the particular background of persons undertaking the conversion program.

Course: PH90

Credit Points: 16

■ PHB889 ADVANCED RADIOTHERAPEUTIC PRACTICE 2

See PHB789.

Course: PH90

Credit Points: 20

■ PHN112 MEDICAL IMAGING SCIENCE

Introduction to the 'C' programming language; programming techniques and algorithms; numerical analysis; and digital image processing.

Course: PH80, SC60

Credit Points: 12 Contact Hours: 4 per week

■ PHN113 RADIATION PHYSICS

Radioactivity and the interaction of ionising radiation with matter; applied radiation counting techniques; biological effects of ionising radiation.

Course: PH80

Credit Points: 12 Contact Hours: 4 per week

■ PHN114 MICROPROCESSORS & INSTRUMENTATION

The capabilities and limitations of a given instrument; design of interfaces between microcomputers and transducers; signal conditioning and signal conversion circuits for data acquisition.

Course: PH80, SC60

Credit Points: 12 Contact Hours: 4 per week

■ PHN155 ULTRASONIC EXAMINATION IN OBSTETRICS/GYNAECOLOGY

The normal and abnormal anatomy and functions related to gynaecology and obstetrics, the ultrasonic techniques used and the appearance of related images.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

■ PHN156 ULTRASONIC EXAMINATION OF THE ABDOMEN

A study of the techniques used in the ultrasonic examination of the abdomen including the appearance on the ultrasound image of normal abdominal anatomy and its alteration by pathological processes.

Course: PH80

Co-requisite: PHN154

Credit Points: 6 Contact Hours: 2 per week

■ PHN162 PRINCIPLES OF MEDICAL ULTRASOUND

Principles of diagnostic ultrasound; physics of ultrasound; ultrasound equipment design and performance; image production and artefacts; general principles of scanning; patient and equipment care; use of coupling materials and acoustic windows and transducer selection.

Course: PH80

Credit Points: 12 Contact Hours: 4 per week

■ PHN171 ADVANCED ONCOLOGICAL IMAGING

Principles and applications of advanced imaging modalities applied to detect cancer; application of anatomical structures and tumour pathology to advanced imaging modalities; the principles and applications of portal imaging.

Course: PH80

Credit Points: 12 Contact Hours: 4 per week

■ PHN173 ADVANCED RADIOTHERAPY TECHNIQUE

Detailed study of brachytherapy equipment; technique and brachytherapy practice.

Course: PH80

Credit Points: 12 Contact Hours: 4 per week

■ PHN181 PRINCIPLES OF MEDICAL IMAGE PROCESSING

The principles of image data acquisition in digital imaging modalities including nuclear medicine; magnetic resonance; digital subtraction angiography and computed tomography. Convolution theorem; image enhancement techniques; image reconstruction; three dimensional image techniques.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

■ PHN182 COMPUTED TOMOGRAPHY

The principles of computed tomography including equipment and contrast media considerations; techniques of specific examination-head, neck, thorax,

abdomen, pelvis, extremities, therapy considerations and new developments.

Course: PH80

Credit Points: 6

Contact Hours: 2 per week

■ PHN183 NUCLEAR MEDICINE

Preparation, dispensing and quality control of radiopharmaceuticals; legal requirements; structure and function of biochemicals; biorouting of radiopharmaceuticals; dose calculations; safety considerations.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN184 BREAST IMAGING

Medical imaging of the breast; principles of mammographic and sonographic imaging; breast anatomy and physiology; pathological conditions affecting the breast and their mammographic and sonographic appearances; advanced mammographic techniques; mammographic and sonographic quality assurance.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN197 CLINICAL ATTACHMENT 1

A supervised practical program carried out in an approved medical imaging department. Students are required to undertake specified clinical practice as applicable to their area of specialisation and meet minimum requirements of clinical hours and case scope and numbers.

Course: PH80

Credit Points: 12

■ PHN211 MEDICAL IMAGING

The physical principles involved in the production of the radiographic, ultrasonic and nuclear medicine images; quality control protocols.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN212 RADIOTHERAPY

Overview of the application of physics to radiotherapy; theoretical and practical aspects of the major topics in radiotherapy physics.

Course: PH80, SC60

Credit Points: 12

Contact Hours: 4 per week

■ PHN213 BIOMECHANICS/ PHYSIOLOGICAL MEASUREMENT

The basic concepts and principles of measurement in dynamic physiological systems; principles of design, construction and operation of transducers, electrodes and other instrumentation.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN214 HEALTH & OCCUPATIONAL PHYSICS

The philosophy, protocols and practices of safety in the medical and industrial fields; minimisation of hazards associated with radiation, electrical, mechanical and biological techniques.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN216 MEDICAL & HEALTH TECHNOLOGY MANAGEMENT

The organisational culture and funding structures within the medical and health industry; basic management skills, the interface between health and technology management.

Course: PH80

Credit Points: 6

Contact Hours: 2 per week

■ PHN217 RESEARCH METHODOLOGY

Literature searches – manual and computer based; data

collection; recording and analysis; introduction to medical statistics. Writing of research proposals, reports and scientific papers.

Course: PH80

Credit Points: 6

Contact Hours: 2 per week

■ PHN271 PRINCIPLES OF ONCOLOGY

Detailed study of radiation biology; principles of cancer treatment.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN272 BRACHYTHERAPY

Continuation of PHN173. The application of brachytherapy techniques to specific malignant disease sites.

Course: PH80

Prerequisite: PHN173

Co-requisites: LSN159, PHN271

Credit Points: 6

Contact Hours: 2 per week

■ PHN273 ADVANCED COMPUTER PLANNING

Continuation of PHN173.

Course: PH80

Prerequisite: PHN173

Co-requisites: PHN171, LSN159

Credit Points: 6

Contact Hours: 2 per week

■ PHN281 MAGNETIC RESONANCE IMAGING

Magnetic resonance imaging as applied to medical imaging; the principles, instrumentation and imaging sequencing parameters of MRI; image production, manipulation and storage; clinical MRI applications and techniques.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN282 DIGITAL SUBTRACTION ANGIOGRAPHY

The principles, equipment and techniques used in digital subtraction angiography; use of contrast media; catheterization techniques and immobilization methods; specific examinations – cerebral, extra cerebral, cardiac, thoracic, abdominal, peripheral vessels.

Course: PH80

Credit Points: 6

Contact Hours: 2 per week

■ PHN291 MEDICAL DIAGNOSIS

The complementary nature of medical diagnostic techniques; the role, strengths and weaknesses of advanced medical imaging techniques in medical diagnosis.

Course: PH80

Credit Points: 6

Contact Hours: 2 per week

■ PHN297 CLINICAL ATTACHMENT 2

A period of additional supervised clinical practice designed to expand and refine skills acquired in PHN197.

Course: PH80

Credit Points: 12

■ PHN354 ULTRASONIC EXAMINATIONS OF THE HEAD, NECK & PERIPHERAL ORGANS

Ultrasound techniques used to examine the head, neck and peripheral organs and the ultrasonic appearance of normal and abnormal anatomy and pathology.

Course: PH80

Prerequisite: PHN257

Credit Points: 6

Contact Hours: 2 per week

■ PHN355 CARDIOVASCULAR ULTRASOUND

The principles and equipment requirements of ultrasound applications in the cardiovascular system; the clinical techniques and diagnostic criteria of such applications in particular those of the peripheral arterial and venous systems and the heart.

Course: PH80

Credit Points: 12

Contact Hours: 4 per week

■ PHN397 CLINICAL ATTACHMENT 3

A period of additional supervised clinical practice designed to expand and refine skills acquired in PHN197 and PHN297.

Course: PH80

Credit Points: 12

■ PHN520 PROJECT (48cp)**■ PHN540 PROJECT (24cp)**

The project may take the form of research development, a design, a feasibility study, or the collation of scattered information on a given topic. The project can be undertaken externally under QUT supervision. Time spent on projects is one year for full-time and two years for part-time students.

Course: PH80

Credit Points: 96 (48 FT and 24 PT per semester)

Contact Hours: 18 (FT) and 9 (PT) per week

■ PHN715 ADVANCED TOPICS IN PHYSICS 1

This unit provides a focussed theoretical foundation for each student's research program and develops a high level of theoretical understanding of the physical principles underpinning the research.

Course: SC30

Credit Points: 8

■ PHN716 ADVANCED TOPICS IN PHYSICS 2

See PHN715.

Course: SC30

Credit Points: 12

■ PHS021 INTRODUCTORY PHYSICS

Intended to give a grounding in basic physics topics selected from the following areas; mechanics, heat, electricity, and magnetism and light. Note: This unit is not compatible with Senior Physics.

Course: BN10

Credit Points: 6

Contact Hours: 3 per week

■ PSB010 INTRODUCTORY DESIGN 1

See ARB140.

Course: BN30

Credit Points: 12

Contact Hours: 6 per week

■ PSB011 INTRODUCTORY DESIGN 2

Studio work; simple three dimensional design tasks at a variety of scales, and illustrating tasks associated with the relevant professions. Workshop and field work related to studio exercises. Techniques of oral and written presentation, report writing, use of English as applicable to the relevant professions.

Course: BN30

Prerequisite: PSB010

Credit Points: 20

Contact Hours: 10 per week

■ PSB012 PLANNING & LANDSCAPE DESIGN 1

Site planning and problem solving theory; studio exercises developing the capacity to analyse the nature and use of spaces and to understand the role of creative expression in design; formal oral presentation techniques (informal and persuasive) including meetings, conferences, interviews and speeches.

Course: BN30

Prerequisites: ARB140 or PSB010, ARB141 or PSB011, PSB050, PSB054, PSB056

Credit Points: 21

Contact Hours: 9 per week

■ PSB013 PLANNING & LANDSCAPE DESIGN 2

Site planning techniques. The studio exercises link work commenced in site planning theory and site planning techniques; integrates issues covered in PSB012 with the technical and practical aspects of site planning and design.

Course: BN30

Prerequisites: PSB012, PSB052

Credit Points: 20

Contact Hours: 6 per week

■ PSB014 PLANNING & LANDSCAPE DESIGN 3

Confirms the student's appreciation of the coherence of the design process by a single integrated semester long project. Secondly, the exercise focuses on interdisciplinary skills by undertaking joint work with the architecture students.

Course: BN30

Prerequisites: PSB013, PSB072, PSB058

Credit Points: 20

Contact Hours: 6 per week

■ PSB015 PLANNING & LANDSCAPE DESIGN 4

Expansion of students' planning and design skills by increasing the complexity and scale of projects and introducing problems requiring knowledge and skills drawn from the human environment, natural environment and technology study areas. The three projects for the semester focus on the development of a significant urban area.

Course: BN30

Prerequisites: PSB013, PSB058, PSB059, PSB072, PSB275

Credit Points: 20

Contact Hours: 6 per week

■ PSB016 HISTORY OF THE BUILT ENVIRONMENT 1

The development of man's artificial environment and its relationship to ideas, technology, and the fine arts from the earliest times to the seventeenth century.

Course: BN30

Credit Points: 6

Contact Hours: 3 per week

■ PSB017 HISTORY OF THE BUILT ENVIRONMENT 2

See ARB241.

Course: BN30

Credit Points: 8

Contact Hours: 3 per week

■ PSB018 LAND USE GENERATION

The evolution of western cities. Order and diversity in the organisation of modern land uses. Values, activities and land uses. Characteristics of major human activities: shelter, work, movement, learning, recreation, exchange. Changing influences on contemporary settlements and emergent settlement forms.

Courses: BN30, PS47

Credit Points: 4

Contact Hours: 2 per week

■ PSB019 PLANTING DESIGN

Design characteristics and criteria. Use of plants as structural and design elements within landscape principles to planting design; scale; design for change, growth, replacement and maintenance. Planting design in schemes such as streets, highways, parks, urban forecourts and interior landscapes, gardens and broad scale regeneration and stabilisation.

Course: BN30

Prerequisite: PSB057

Credit Points: 3

Contact Hours: 1 per week

■ PSB020 LAND USE POLICIES

Review of the Government structure as applied to urban areas and regions. The levels of urban planning. How urban policies are made. Organisations as policy makers and policy implementers. Areas of conflict and their resolution. The various levels and types of land use planning. Major land uses and activities; work, housing, recreation, transport and welfare.

Courses: BN30, PS47

Prerequisite: PSB018

Credit Points: 4

Contact Hours: 2 per week

■ PSB021 CONSERVATION THEORY

Introduction to the concepts of conservation and preservation. The structure of conservation legislation and responsibility in Australia. ICOMOS and the Burra

charter. The particular requirements of places, landscapes and precincts in mixed or public ownership. Application of conservation concepts and their use in the National Listings process.

Courses: BN30, PS47

Credit Points: 2

Contact Hours: 1 per week

■ PSB030 INTRODUCTION TO THE PROFESSIONS

The concept of professionalism and contemporary social expectations of the environmental design professions. Current issues and controversies in environmental design and planning in Australia. Organisation and activities of the professional institutes. Powers, responsibilities and day-to-day activities of landscape architects and urban and regional planners.

Course: BN30

Credit Points: 3

Contact Hours: 1 per week

■ PSB032 ISSUES & ETHICS

Case studies of successful solutions to environmental problems (eg. Oregon, London, South Australia). Implications of major environmental problems and environmental awareness for urban form and policies. Environmental impacts of technological change. Contrasting attitudes towards conservation of natural, rural and urban environments. Concept of stewardship.

Courses: BN30, PS47

Prerequisites: Completion of years 1 and 2

Credit Points: 2

Contact Hours: 1 per week

■ PSB040 GRAPHIC COMMUNICATION

A practice-based program with specialised, formal lecture inputs related to the development of methodologies. The program concentrates on the achievement of a professional standard in basic techniques of production documentation.

Course: BN30

Credit Points: 6

Prerequisites: ARB140, PSB011

Contact Hours: 3 per week

■ PSB041 REPORT PREPARATION

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of materials. Precise. Use of tables, charts, and illustrations in written presentation. Clarity and the selection of data.

Course: BN30

Credit Points: 2

Prerequisites: COB163, PSB400

Contact Hours: 1 per week

■ PSB050 THE HUMAN ENVIRONMENT 1

See ARB141.

Course: BN30

Credit Points: 4

Contact Hours: 2 per week

■ PSB051 THE HUMAN ENVIRONMENT 2

Basic research principles, perception, learning processes, motivation and problem solving. Communication, characteristics and dynamics of group and interpersonal interactions. Stress and anxiety management. The role of the self-concept and locus of control in transactions with the world in general.

Course: BN30

Credit Points: 6

Contact Hours: 2 per week

■ PSB052 THE HUMAN ENVIRONMENT 3

Role of social, cultural, and historical variables in human-environment interactions. Social and cultural development of Australian urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps and wayfinding, intercultural and intracultural differences.

Course: BN30

Credit Points: 6

Prerequisite: PSB051

Contact Hours: 3 per week

■ PSB053 THE HUMAN ENVIRONMENT 4

Directing society; the roles of government and private enterprise; theories of power in society. The Australian example; three tiers of government; Australian constitution; Parliamentary democracy. Queensland State administration; role of local government, quangos and statutory authorities; pressure groups and lobby groups and their influence in the built environment arena.

Course: BN30

Credit Points: 4

Prerequisite: PSB052

Contact Hours: 2 per week

■ PSB054 ENVIRONMENTAL SCIENCE

Atmospheric process including climate; air pollution and smog; water cycles. Sea level changes and water pollution as a global issue; carbon, nitrogen and phosphorous cycling. Introduction to human population and demographic trends. Distribution and trade in renewable and non-renewable resources; trends in the use of land; the city as an ecosystem; natural resource management and conservation.

Courses: BN30, IF52, IF54, PS47

Credit Points: 4

Contact Hours: 2 per week

■ PSB056 APPLIED LAND SCIENCE FOR DESIGNERS

The foundations of a scientific understanding of the earth's surface. Topics include earth science and climatology for environmental design; land forms and their origins; introduction to the physical properties and behaviour of soils and rocks in relation to the design professions.

Course: BN30

Credit Points: 4

Contact Hours: 1

■ PSB057 LANDSCAPE ECOLOGY 1

Concepts of plant science and ecology which form the basic understanding necessary for design in dynamic biophysical environments; the biological world, at whatever scale of analysis we use – individual, species, population or community – is responsive in its form and function to the influences of the environment in which it lives. Through understanding the processes which regulate the impact of environment it is possible to interpret patterns in the landscape, predict change and design form and function.

Course: BN30

Credit Points: 8

Contact Hours: 4 per week

■ PSB058 LANDSCAPE ECOLOGY 2

The broad division of the earth in relation to climate and soils; the ecosystem concept and its development and application at various geographic scales; concept of community ecophysiology and growth equations; ecological biogeography of Australian vegetation; classification of landscape: concepts of biogeographic regions; landscape structure: patches and corridors and the ideas of matrix and network; analysis of landscape structure and function.

Course: BN30

Credit Points: 8

Contact Hours: 3 per week

■ PSB059 POPULATION & URBAN STUDIES

Topics include: aspects of urban structure including size/function relationships, concentric zone theory, Hoyt's settlement patterns and problems of rural settlements. The dynamics of urban areas: the relationships and requirements of urban activities (especially residential, work and leisure activities); theories of city form and change; the problems of the CBD; the CBD fringe, and the urban/rural fringe. Case studies of Australian settlements.

Courses: BN30, PS47, PS67

Credit Points: 6

Contact Hours: 2 per week

■ PSB060 INTRODUCTION TO ECONOMICS

Introduction to the basic economic problem of scarcity. Production possibilities are outlined together with various types of economic regimes. A simple macroeconomic circular flow model is introduced. The second part of the unit deals with microeconomic concepts. The market system and associated concepts of demand, supply and price equilibrium.

Courses: BN30, CN32

Credit Points: 2 Contact Hours: 1 per week

■ PSB061 IMPACTS & ASSESSMENT

Forms of impact assessment and analysis considering ecological, social and economic issues; various statutory systems. An analysis of the ecological processes as a background to assessing impact of human activities: urbanisation, resource exploitation, mining and other forms of landscape change.

Courses: BN30, PS47

Prerequisites: PSB058, PSB059

Credit Points: 5 Contact Hours: 2 per week

■ PSB062 ECONOMICS OF TOWN PLANNING

This unit is essentially microeconomic; introduces urban economics and the economic aspects of town planning issues; provides techniques for economic analysis suited to planning needs; illustrates interactions with employment, industry, population and urban studies at the economic interface.

Course: BN30

Credit Points: 5 Contact Hours: 2

■ PSB063 HOUSING & COMMUNITY SERVICES

Population change and households formation. Housing conditions and preference surveys; housing issues and policies. The economics of the building and land development industries. The physical place of educational institutions in communities. Shared use of facilities. Location and space standards. Social and welfare services and their role in the community.

Courses: BN30, PS47

Credit Points: 5 Contact Hours: 2 per week

■ PSB070 MAP & AIR PHOTO INTERPRETATION

Types, sources, uses and availability of maps and air photos, map reading, understanding of contours, land form and use of sections; methods and techniques of map production; introduction to photogrammetry and use of stereoscopes; introduction to remote sensing.

Course: BN30

Credit Points: 2 Contact Hours: 1 per week

■ PSB071 SITE MEASUREMENT

Introduction to basic equipment for site measurement: levels, staffs, chains and tapes, the prismatic compass, optical prism, clinometer, range poles and their use in horizontal and vertical measurement. Introduction to recording of field data and the preparation of measured site drawings from recorded data.

Course: BN30

Credit Points: 4 Contact Hours: 1 per week

■ PSB072 DESIGN SCIENCE

The quantity and quality of light and daylight in buildings; macro and micro climatic conditions; students are given the opportunity to conduct experiments and test models.

Course: BN30

Prerequisites: ARB140, CHB204, PHB144, PSB011, PSB056

Credit Points: 4 Contact Hours: 2 per week

■ PSB073 COMPUTER TECHNIQUES

Development of understanding, awareness, and appreciation of computers as aids in data analysis and presentation, and of basic skills to input, manipulate, and analyse output; for statistical analysis of data in decision making; the range of information systems; as a tool in landscape architecture and planning.

Course: BN30 Prerequisites: MAB195, MAB196

Credit Points: 4 Contact Hours: 2 per week

■ PSB074 LAND DEVELOPMENT

The political, economic and physical contexts of land development; environmental services and utilities at the broad scale; the necessary design criteria for these services. Topics include: characteristics of land development projects; structure and operation of approval authorities; design considerations; impacts of electricity and gas systems on the natural environment; transport systems planning.

Course: BN30

Credit Points: 8 Contact Hours: 3 per week

■ PSB077 TRANSPORT PLANNING

Studies include alternative modes of transport; methods for predicting future urban transport patterns; techniques of transport planning and management. Movement and its alternative modes. The origin and destination approach to traffic management; interchange studies. Inter-urban traffic and regional transport planning. The relationship between land use and traffic generation.

Courses: BN30, PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSB078 URBAN LAND DEVELOPMENT

Continuation of PLB546. Land development projects, their financial, marketing and local authority requirements; the housing industry, firm and industry developments and current trends; the requirements of community, public and utility services.

Courses: BN30, PS67

Credit Points: 6 Prerequisite: PSB074 Contact Hours: 2 per week

■ PSB190 ELECTIVE UNIT (PLANNING)

Any approved unit selected from the undergraduate programs of the Faculty of Built Environment and Engineering, normally one of the landscape architecture courses. In special circumstances the elective unit may be selected from courses offered by QUT's other faculties or by another approved university.

Course: BN30

Prerequisites: Completion of years 1 and 2

Credit Points: 3 Contact Hours: 2 per week

■ PSB230 QUANTITIES & COSTS

Measurement and costing of time, resources, and materials for professional services, production of documents, and implementation of projects. The techniques and tools available for both preliminary and detailed measurement and costing and their control.

Course: BN30

Credit Points: 2 Contact Hours: 1 per week

■ PSB244 LANDSCAPE GRAPHICS

Combined application of freehand, drafting and colour techniques. The selection of colour, theme and emphasis in graphic packages. Realism, abstraction and symbolism in landscape communication. Monochromatic graphics for simple reproduction. Integration of various graphic techniques and media. Efficient processes for production and reproduction.

Course: BN30

Credit Points: 6 Contact Hours: 2 per week

■ PSB275 LANDSCAPE CONSTRUCTION 1

Materials and methods of construction; skills in detailing and preparation of documents. Topics include: the common building materials; foundation soils; site stormwater drainage, water and electrical services; applied systems, including paving, etc.

Course: BN30

Prerequisite: PSB071

Credit Points: 6

Contact Hours: 3 per week

■ PSB276 LANDSCAPE CONSTRUCTION 2

Techniques of land surface manipulation including construction of platforms for building, carparks, sports ovals etc. and associated provision of surface drainage. Lectures are accompanied by skill development exercises in a grading workbook concluding with the preparation of two set grading plans.

Course: BN30

Prerequisite: PSB071

Credit Points: 4

Contact Hours: 2 per week

■ PSB280 ELECTIVE UNIT (LANDSCAPE ARCHITECTURE)

Final year students are required to undertake a minimum of two hours of elective units. The elective unit may be taken in either semester or spread across both semesters depending on unit choice.

Course: BN30

Prerequisites: Completion of years 1 and 2

Credit Points: 4

Contact Hours: 2 per week

■ PSB303 ANALYSIS OF SPATIAL MEASUREMENT 1

Surveying measurements and their assessment, propagation of variances, pre-analysis of survey tasks, least squares adjustment methods for various functional and stochastic models.

Course: IF52, IF54, PS47

Credit Points: 6

Contact Hours: 3 per week

■ PSB304 ANALYSIS OF SPATIAL MEASUREMENT 2

Generalised Least Squares, linearised observation equations approach to more extensive horizontal and 3-D networks including GPS data; reliability of solutions and design of networks; detection and treatment of systematic and gross errors.

Course: IF54, PS47

Credit Points: 6

Contact Hours: 3 per week

■ PSB306 CARTOGRAPHY 1

Freehand Drawing: field sketching; base materials; drawing instruments for survey drafting; 3-D representation: relief shading, contour interpolation; precision plotting: earth's coordinate system; construction of map projections both manual and computer assisted; the cadastre: an introduction to its history and implications for society if the cadastre is not maintained; specifications for cadastral plan preparation: cadastral plan registering authorities requirements, simple subdivision plans; plan reproduction techniques: electrostatic diazo.

Course: IF54, PS47

Credit Points: 8

Contact Hours: 3 per week

■ PSB307 CARTOGRAPHY 2

Preparation of cadastral plans for survey actions over multiple amalgamations; building units and group titles; background tenures, mining tenures; detail survey plans: long and cross sections for engineering projects; digital data acquisition: types of digitisers and scanners; raster/vector conversions; digitising techniques; scanning problems; output devices; printers, plotters, scanner plotters, image setters.

Course: IF52, IF54, PS47

Prerequisite: PSB306

Co-requisites: PSB315, PSB327

Credit Points: 8

Contact Hours: 3 per week

■ PSB308 CARTOGRAPHY 3

Reprographics; graphic arts photography; film characteristics; emulsion properties; printing methods: offset lithography; gravure letterpress; requirements of originals; type and typesetting layout design; paper technology; ink technology, colour separation techniques and procedures for map production; halftone photography for relief shading; desktop publishing: software capability and limitations.

Courses: IF52, IF54, PS47, SV34

Prerequisite: PSB307

Credit Points: 8

Contact Hours: 3 per week

■ PSB309 CARTOGRAPHY 4

Map Design: map compilation, generalisation; compilation methods; data sources and evaluation; map design elements: composition; organisation; visual hierarchy; gestalt theory: thematic mapping; qualitative and quantitative pre-processing of spatial data; statistical methods; data classification; dot map; choropleth map isarithmic mapping cartograms; colour and visual perception; colour systems; Munsell, Ostwald, CIE, colour in cartographic design.

Course: IF54, PS47

Prerequisites: PSB308, PSB342

Credit Points: 8

Contact Hours: 3 per week

■ PSB310 GEODESY 1

Fundamentals of potential theory; the La Place operator and La Place equation; outline of spherical harmonics; the earth's gravity field, potential of the earth in spherical harmonics. Geometric and physical of lower degree harmonics; meaning geopotential surfaces, geoid, undulations, deflection of vertical, level surfaces, normal, orthomorphic, dynamic heights; heighting systems and AHD; satellite geodesy, perturbed and unperturbed satellite motions; orbital elements; determination of orbits; satellite ephemerides; orbital characteristics for communication, remote sensing and position fixing satellites; the GPS system, configuration, availability, reliability, ephemerides, error sources and error budgets; GPS receivers and software; GPS applications in point positioning, differential and kinematic mode; non-geodetic applications.

Course: IF54, PS47

Prerequisites: PHB172, MEB221, PSB327, MAB498

Co-requisites: PSB346, PSB329

Credit Points: 6

Contact Hours: 3 per week

■ PSB311 GEODESY 2

Further work on spherical and ellipsoidal harmonics; Gauss' and Green's formulae, Legendre's functions, Stokes' formula; determination of geoid and best fitting spheroids; satellite datum, transformation to geodetic datum; local and geocentric geodetic datum, mutual transformations; geodetic and satellite time systems; variations in gravity, gravity measurement, gravity and height anomalies; ocean and earth tides; other geodetic space techniques; VLB1, LLR, INS, Doppler; the incorporation of these data sets into classical terrestrial data sets; geophysical aspects of geodesy; rotation of the earth, length of day, polar motion, UT1 and UT2; work of the International Earth Rotation Service; the Conventional Terrestrial System.

Course: PS47

Prerequisite: PSB310

Credit Points: 6

Contact Hours: 3 per week

■ PSB315 LAND ADMINISTRATION 1

Introduction to the nature of politics, political concepts and culture, and public policy; constitutional development in terms of its English origins, evolution of colonial self-government, federalism, and the Australian Constitution with particular reference to the effects on laws relating to land; the roles of parliament, executive

government, the judiciary, the public service, local government; the exercise of political influence through pressure groups, political parties, the mass media, and issues of freedom of information; the purpose and aims of resource policy and the role of property rights in resource management.

Courses: IF54, PS47, SV34

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB316 LAND ADMINISTRATION 2

An historical study of the development of land policy in Australia, highlighting the conflicts that have arisen from differing philosophies of land use and ownership; introduction to the elements of the law; the sources of the law, legal systems, the judicial hierarchy, rules of precedents, law reports, where to find the law; the basic principles and objectives of the Torrens system of land titling; concepts of government guarantee and indefeasibility; concepts of Estate, Tenure, Interests; the operation of the Torrens system in Queensland; Certificates of Title, easements, caveats, mortgages, dealings, transfers, lease, etc.

Course: IF54, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB317 LAND ADMINISTRATION 3

The legal aspects of reinstatement of boundaries; case law associated with reinstatement; statutory requirements which relate to the zoning and development of land; land and surveying requirements of the following Acts: The Dividing Fences Act, The Land Sales Act, The Soil Conservation Act, The Water Resources Act, The Beach Protection Act, The Integrated Resort Development Act, The Acquisition of Land Act, The Harbours Act, The Canals Act, etc.

Course: IF54, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB318 LAND ADMINISTRATION 4

An introduction to rural and urban sociology; defining sociology, the ecological approach, urban social structure, social patterns in urban society, deviance and urban living, rural social patterns and problems. Social aspects of land administration, the impact of industrialisation land urbanisation on rural societies, the country/city dichotomy; social problems of new town and large scale suburban subdivision and urban redevelopment.

Course: PS47

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB319 LAND ADMINISTRATION 5

The role of organisation, learning as a function of time, tendencies towards specialisation, the concept of synergy, problems of coordinating activities, the organisation of information and the significance of rule governed behaviour; economic, psychological, administrative, political and sociological perspectives on organisation; systems and cybernetic approaches to organisation; the individual as a system, social systems, and adaptive systems; applications in personal psychology and development, the business firm, professional and industry organisations, government and social controls, legal institutions and public policy, land information systems.

Course: PS47

Prerequisites: PSB315, PSB323, PSB318

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB320 LAND DEVELOPMENT PRACTICE 1

The history of land development, especially urban land development, in Australia and in Queensland. The effects of technology and social attitudes on urban land

development; sustainable land development; the physical, economic and social determinants of land use; land development as an economic activity; economic and social benefits of land development controls; site analysis and assessment; opportunities and constraints, sieve mapping, GIS application; the site in its broader context; spatial models; models for levels of activity and location of activities, optimising models.

Course: PS47

Prerequisites: MAB498, PSB054, PSB324, PSB342

Co-requisites: CEB464, PSB317

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB321 LAND DEVELOPMENT PRACTICE 2

Elements of traffic planning, road capacities, road hierarchies; geometric layout of rural and urban roads; storm water and sewerage drainage for urban subdivisions; subdivision design; lot geometry and orientation, road hierarchies and access; open space systems, radburn; provision and location of services; detailed treatment of development controls affecting subdivisions – negotiations, applications, appeals; preparations for Court, precedents.

Course: PS47

Prerequisites: CEB464, PSB317, PSB318, PSB320

Co-requisite: CEB564

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB322 LAND DEVELOPMENT PRACTICE 3

Further work on conventional and innovative subdivision design, integration of road and lot design with engineering works, especially drainage; subdivision designs and procedures for canal estates, industrial estates, group title, building units and other strata titles; costing and cash flow analysis for subdivision projects; feasibility studies, designing to a budget; preparation of a complete application for a local authority approval.

Course: PS47

Prerequisites: CEB564, PSB321, PSB324

Credit Points: 16 **Contact Hours:** 6 per week

■ PSB323 LAND STUDIES 1

Introduction to the nature and scope of economics as a discipline; analysis of factors affecting supply and demand for goods and services; market structure, market failure and rationale for government intervention into the operation of markets; land and natural resources, conservation and the environment, and the role of property rights and obligations; problems of industry location and spatial aspects of economics; consideration of economic efficiency, productivity, technological change and economic growth.

Course: PS47

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB324 LAND STUDIES 2

Concepts of value, purposes of valuation: general and statutory definitions; general principles of valuation; methods of valuation, preparation and presentation of valuation reports; valuation of improvements to land; valuation methods and techniques applicable to the valuation of residential, retail, commercial and industrial property; valuation of other rights in land, easements, licences, life interests, reversions, remainders and fractional interests; strata title; effect of statutory town planning schemes on land valuation; land valuation and land administration: legislation affecting land valuation practice including the Valuation of Land Acts, Valuers Registration Act, Auctioneer's Commission Agents Act, Sale of Land Act; Law reports on valuation cases; reports of recent Royal Commissions and Committees of Inquiry dealing with land valuation.

tion; duties and liabilities of a valuer.

Course: IF54, PS47

Prerequisites: PSB316, PSB323, PSB328

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB325 LAND SURVEYING 1

General introduction to the profession and to position fixing methods ('absolute' and relative). Elementary treatment of errors – systematic and random; accuracy and precision. Working from 'whole to part'; horizontal and vertical control. PSMs, level datum(s), BMs, MSL, AHD. Types and purposes of surveys; tapes and chains, formulae (sans derivations) for slope, temperature, sag and tension correction; chaining techniques; simple trigonometric and differential heighting; introductory principles and use of EDM; calculations; close and Bowditch adjustment; areas and volumes. Introduction to mapping; map numbering system used in Queensland; interpretation of cadastral and topographical maps; elementary aerial photography; simple geometry and stereoscopic measurement; interpretation and orientation in maps and field positions; outline of GPS and GIS technologies – opportunities and pitfalls.

Course: IF54, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB326 LAND SURVEYING 2

Calculations; missing element closes; horizontal curves (simple, compound, reverse); cutting off areas; 'Hornor type' plane calculations; earth work estimation; errors; further work on random errors, measures of precision, errors and residuals; simple propagations; theory, tests and adjustments of optical theodolites; tacheometry, ODM, test and adjustments of tilting and automatic levels; reciprocal and precision levelling. Theory and practice of electronic theodolites and total stations; (Note: this requires coordination with Physics). Traversing and further non-Least Square adjustments; investigation and detail surveys. Longitude and cross-sections; theory and practice of barometric and hydrostatic levelling. Further work on contours and contouring.

Course: IF54, PS47

Prerequisite: PSB325

Co-requisite: PHB172

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB327 LAND SURVEYING 3

Position fixing and resection; contour and detail surveys, specifications, performance and assessment of DTMs; horizontal and vertical alignment for route surveys; areas, volumes and earthworks. Field astronomy theory.

Course: IF52, IF54, PS47

Credit Points: 10 **Contact Hours:** 3 hours

■ PSB328 LAND SURVEYING 4

Land Title Systems, Reinstatement; an explanation of the options of land title systems, with particular reference to Customary Land Tenure, Private Deeds registration, Public Deeds Registration, and Registration of Title; an analysis of the literature and case law relevant to the reinstatement of property boundaries as applicable to Queensland; an analysis of legislation, subordinate legislation and case law that impinges on the reinstatement process; a comparative rendering of spatial relationships. Field survey to reinstate the boundaries of a section in the Brisbane Metropolitan area.

Course: IF52, IF54, PS47

Prerequisites: PSB316, PSB325

Co-requisite: PSB317

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB329 LAND SURVEYING 5

Reconnaissance for geodetic surveys; geodetic obser-

vations techniques and reduction of observations. The three classical methods of geodetic surveying, triangulation, trilateration and traversing. Precise levelling including the Princeton Test; satellite surveying using GPS technology; the undertaking of a geodetic survey in accordance with Surveyors Board requirements for Registration as a Surveyor.

Course: IF54, PS47

Prerequisite: PSB327

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB330 LAND SURVEYING 6

Field surveys for DTMs, as-constructed surveys, associated specifications and standards; more complex setting out, control and monitoring for structures; mining surveying for surface and below surface mining activities; hydrographic surveying for exploration and port management.

Course: IF54, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB331 LAND SURVEYING 7

The need for control in the use of resources; property rights as a method of resource control. Creating and maintaining knowledge of property rights; including issues concerned with parcel identifiers, land tenure, land boundaries, land subdivision, land registration, changing rights through statutory changes, attitudes and responses of the public; evidence of property rights, evolution from customary land tenures to land registration systems; factors leading to breakdown of systems. Effects of technological change on land use, evolving property rights and obligations, and on information technology on land use controls; the Mabo case.

Course: PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB332 LAND SURVEYING 8

Procedures of the various departments including but not confined to the Department of Lands, Resources Industries; plan registration, road closure, resumption surveys, conversion of mining tenure to freehold, conversion of pastoral tenures to freehold, excision for and of reserves of various kinds. The undertaking of a cadastral survey of moderate complexity in accordance with Surveyors' Board's requirements for registration as a surveyor.

Course: PS47

Prerequisite: PSB328

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB333 MAP PROJECTIONS

Mapping terms and definitions; the mapping problem. Distortion, linear, angular and areal. Tissot's Indicatrix Ellipses. Scale, scale in particular directions. Conditions for orthogonality, conformality, equivalence and equidistance. Selection of suitable projections; spherical projections. Principles for deriving projections on tangent and secant plane, conic and cylindrical surfaces in skew, normal or transverse aspects. The use of skew graticules; spheroidal projection. The polar stereographic, Lambert's polar conformal, Mercator and Transverse Mercator projections. The UTM system. Computations on the AMG. Line scale factor and $(1 - T)$ for short and long lines. Mutual transformation of polar and AMG coordinates.

Course: IF54, PS47

Prerequisite: MAB497

Co-requisites: PSB306, PSB346

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB334 PHOTOGRAMMETRY 1

Foundations of photogrammetry; history, products, applications; elements of photogrammetric optics: lenses and filters; aerial cameras; aerial photography; factors affecting the photographic mission; acquisition of photography. Photographic materials and process-

ing: photographic materials and their properties; the aerial photographic image; planning and executing the photogrammetric project. Field surveys for photogrammetry; introduction to basic mathematics of photogrammetry; geometry and use of a stereo model. Introduction to remote sensing: propagation of electromagnetic waves; general description of sensors; processing of image grey levels; classification; mapping with space borne imagery.

Course: IF52, IF54, PS47

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB335 PHOTOGRAMMETRY 2

Basic mathematics of photogrammetry: coordinate systems; elements of interior and exterior orientation; image forming equations of the central projection; fundamental rotation matrices. Space resection of a single photograph; formation of a stereo model: on a stereoplotter; numerically; aerotriangulation: introduction; historical development; methods; instrumentation. Block triangulation with independent models: three-dimensional transformation of unit models; separation of planimetric and height computations; corrections for image errors and instrumental errors: image deformation; physical effects; accuracy of block adjustment: planimetry; height.

Course: IF52, IF54, PS47

Prerequisites: MAB497, MAB498, PSB334

Co-requisites: PSB304, MAB795

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB336 PHOTOGRAMMETRY 3

Principles of plotting with a Stereoplotter: analogue plotters; analytical plotters. Rectification of photographs: perspective relationship between planes; differential rectification of photographs (orthophotos); data acquisition: digital elevation model; acquisition of height points; accuracy assessment; close range photogrammetry: introduction; overview; applications. Digital mapping and its relationship to geographic information systems and remote sensing: general process; attribute encoding of cartographic information; geographic information systems.

Course: IF54, PS47

Prerequisites: MAB497, MAB498, PSB303, PSB334, PSB335

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB337 PHOTOGRAMMETRY 4

Introduction to digital photogrammetry: digital photogrammetry; digital image fundamentals; all digital photogrammetry and remote sensing; image sampling and resampling; digital image correlation: theory of digital correlation; computational methods in digital correlation; some strategies of computation in correlation; correlation by least squares; multi-point and feature-based matching. Digital geometric processing of images: projective transformation equations; effect of terrain undulations; digital differential rectification; processing of image grey levels: image transformation; image enhancement; image restoration.

Course: PS47

Prerequisites: MAB498, MAB795, PSB303, PSB304, PSB335, PSB336

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB338 PROFESSIONAL PRACTICE

Definitions and characteristics of a profession: principles of ethical behaviour, codes of ethics, the Code of Ethics of ISA; professionalism and statutory regulations; current issues in professionalism; professional organisations; professional heritage. The surveyor and statutory authorities. The Surveyors' Board, its purpose,

powers, and functions; registration of surveyors. Business planning: market research and analysis, types of business structure, feasibility studies, cost-benefit analysis, financial requirements, business requirements: equipment insurance, staff recruitment, etc. Legal aspects of practice; contact; torts; business organisations: sole trader, partnership, company, joint venture, association and trusts, business names.

Course: IF54, PS47

Prerequisites: COB163, PSB317 and completion of at least 240 course credit points

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB339 PROJECT

Each student is to research and report on a topic germane to surveying and mapping that will demonstrate a capacity to satisfy the objectives of this subject. A 20-25 minute seminar is given by each student in both semesters on the topic of the project, or other approved subject.

Course: PS47

Prerequisites: BNB001 plus completion of not less than 240 course credit points

Credit Points: 16 **Contact Hours:** 3 per week

■ PSB340 REMOTE SENSING 1

History and principles of remote sensing: introduction; definitions; principles; electromagnetic radiation: introduction; the electromagnetic spectrum; interaction with the atmosphere; interaction with surfaces; types of imagery; image interpretation: elements of image interpretation; image interpretation strategies; preparation for interpretation; satellite systems: history; current platforms. Image resolution: target variables; system variables; operating conditions; elementary image classification: informational classes and spectral classes; unsupervised classification; supervised classification; other classifications; applications in the earth sciences; land use and land cover remote sensing and geographic information systems.

Course: IF54, PS47

Credit Points: 6 **Contact Hours:** 3 per week

■ PSB341 REMOTE SENSING 2

Review of aspects from PSB340; image interpretation: activities of image interpretation; elements of image interpretation; techniques of image interpretation; visual requirements of image interpretation; image processing and image classification; cartographic presentation of remote sensing data: fundamentals of cartographic presentation; approaches to cartographic presentation; rectification; applications environment; terrain and minerals: assessment and evaluation. Forest lands: inventory and assessment; water resources assessment; the marine environment. Weather and climate: measurement and analysis; crops and soils; urban environments: inventory and analysis; regional analysis.

Course: PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB342 SPATIAL INFORMATION SCIENCE 1

Introduction: what is spatial information science; maps and map analysis; raster SIS; vector SIS; digital elevation models; spatial data bases: spatial objects and data base models; relationships among spatial objects; data base concepts; data acquisition: sampling; data input; coordinate systems; map projections; transformations; georeferencing; Using spatial information systems: spatial analysis; output; graphic output design issues; modes of user/SIS interaction.

Course: IF54, PS47

Credit Points: 8 **Contact Hours:** 3 per week

■ PSB343 SPATIAL INFORMATION SCIENCE 2

Coordinate systems and geocoding: common coordinate systems; map projections; transformations. Vector data structures and algorithms: storage of complex spatial objects; storage of lines; algorithms; polygon overlay operation; raster data structures and algorithms: raster storage; hierarchical data structures; quadtree algorithms and spatial indices; data structure and algorithms for surfaces, volumes and time: digital elevation models; spatial interpolation; temporal and 3-D data bases; data bases for spatial information systems; concepts; error modelling and data uncertainty: accuracy of spatial data bases; managing errors; line generalisation; visualisation: visualisation of spatial data; colour theory.

Course: IF54, PS47

Prerequisites: PSB306, PSB326, PSB334, PSB342

Credit Points: 8 Contact Hours: 3 per week

■ PSB344 SPATIAL INFORMATION SCIENCE 3

Spatial information science application areas: application areas; resource management; urban and rural planning; cadastral administration; facilities management; system planning: system planning overview; functional requirements analysis; system evaluation; benchmarking; system implementation: database creation; implementation issues; implementation strategies; other aspects: standards; legal issues; knowledge based techniques.

Course: IF54, PS47

Prerequisite: PSB343

Credit Points: 8 Contact Hours: 3 per week

■ PSB345 SPATIAL INFORMATION SCIENCE 4

Spatial information application area; decision making in spatial information systems; spatial information planning: system planning; system building; system evaluation; costs and benefits.

Course: IF54, PS47

Prerequisite: PSB344

Credit Points: 8 Contact Hours: 3 per week

■ PSB346 SPHEROIDAL COMPUTATIONS

Properties of the meridian ellipse. Radii of curvature, meridian arc. Spheroid as a geodetic reference surface, latitude, longitude, geoid separation and ellipsoidal height. Mutual conversion of geodetic and cartesian coordinates. Seven parameter coordinate transformations; least squares parameter estimation; Point-to-point computation on the spheroid, Robbin's long line and simplified formulae. Approximate methods; setting out parallels and meridians.

Course: IF54, PS47 Prerequisites: MAB497, PSB303

Credit Points: 6 Contact Hours: 3 per week

■ PSB347 TOPICS IN ENGINEERING SURVEYING

Deformation surveys, design and analysis for structures and subsidence. Large scale metrology, measurement methods and geometric shape fitting; tunnelling surveys; high rise buildings.

Courses: PS47, SV34

Credit Points: 6 Contact Hours: 3 per week

■ PSB902 URBAN PLANNING 1

Building upon preliminary economic knowledge, urban growth theory and constraints are outlined. Population and employment changes and their effect on employment, industry and residential location are identified together with relevant definition and analytical techniques. Introduction to economic base studies, activity rates and use of multipliers. The urban labour market, unemployment and labour supply are outlined.

Theory and methods of industry location are developed: types and needs of industry, retailing, retail hierarchies; office activities, office location; shopping centres; and office, industrial and corporate parks. The role of government and the impact of the post-industrial society are considered.

Courses: CN32, PS47

Credit Points: 4 Contact Hours: 2 per week

■ PSB903 URBAN PLANNING 2

Principles and practice of planning. Introduction: background to emergence of planning in Queensland. Types of planning: development planning; development control; strategic planning. Detailed coverage of the current development approval process including Local Government (Planning and Environment) Act 1990. Conservation and heritage protection.

Courses: BN30, CN32

Credit Points: 4 Contact Hours: 2 per week

■ PSB904 SURVEYING & MEASURING

Basic concepts, applications of surveying, relationship with architecture and building; instrumentation; setting out of procedures, plotting survey data, computations, cadastral systems, land tenure systems; Titles Office procedures, searching, identification, types of surveys, easements, encroachments, interpretation of survey plans.

Courses: CN31, CN32, CN33, PU42

Credit Points: 4 Contact Hours: 2 per week

■ PSB905 PROJECT SURVEY

Two surveys of a building site; chain survey with reduced levels taken on a grid; survey done by theodolite traverse.

Course: CN31

Prerequisite: PSB904

Credit Points: 4 Contact Hours: 2 per week

■ PSB907 SURVEYING

Introductory surveying methods, instrumentation; use of level and theodolite for gathering and setting out data points, distance measurement, circular curves, areas of volumes; introductory photogrammetry and digital terrain models.

Course: CE42

Credit Points: 8 Contact Hours: 3 per week

■ PSB910 CONSTRUCTION SURVEYING

Concepts of surveying and measuring, revision of trigonometry functions. Levels and levelling, reading and recording observations, 2-peg test. Linear measurement, correction to measurements. The theodolite, angles and bearings, traverses and traverse calculations. Setting out, contours and volumes. Maps. Cadastre. The practical sessions include, levelling, measurement, traversing, setting out, and use of construction instruments, checking verticality etc.

Courses: CN41, CN43

Credit Points: 8 Contact Hours: 4 per week

■ PSN001 APPLIED RESEARCH TECHNIQUES

Research techniques, including surveys of various types, statistical analysis, remote sensing and others.

Courses: BN73, PS69

Credit Points: 6 Contact Hours: 2 per week

■ PSN002 CONCENTRATION STUDIES A

Students, in conjunction with and with the approval of the course coordinator elect studies to improve basic knowledge in identified areas of deficiency. Such study may be either in defined units offered outside the major or a specified reading/research program under tutorial guidance.

Courses: BN73, PS69

Credit Points: 4 Contact Hours: 1 per week

■ PSN003 CONCENTRATION STUDIES B

Each student undertakes approved study to develop more specialised knowledge and skills related to their specific focus of study or dissertation topic. Study may be taken within the student's own major through specialist studies offered by staff in their areas of expertise, from other majors in the course, or from other advanced studies in the University.

Courses: BN73, PS69

Credit Points: 8 Contact Hours: 2 per week

■ PSN004 APPLIED RESEARCH TECHNIQUES

Research techniques, including surveys of various types, statistical analysis, remote sensing and others.

Course: BN73, PS69

Credit Points: 4 Contact Hours: 1 per week

■ PSN099 DISSERTATION

Provides the opportunity to pursue in depth and with innovation an issue or problem within the chosen focus of study. This may be achieved through emphasis on either design or process. The balance between theory and design application may vary; however, a dissertation which focuses on a specific design must be supported by a theoretical basis and analysis sufficient to define the problem and to explain how the design satisfies the conditions for a solution. Conversely, a dissertation which focuses on the development of a theory must illustrate the practical implications of the theory for the relevant classes of design.

Course: BN73

Credit Points: 24

■ PSN111 COMPARATIVE PLANNING THEORY

Roles of planners: statutory, pluralist, advocate, consultants; models of planning at different scales and in different contexts: national, regional and local; planning under different economic and social conditions: free market, centrally planned, indicative, directive, interventionist, participatory. Current metropolitan and regional planning issues in Australia.

Course: IF64, BN73

Credit Points: 6 Contact Hours: 2 per week

■ PSN112 CONCENTRATION STUDIES

In consultation with the course coordinator, and the approval of the Head of School, each student undertakes an agreed program of study which may involve taking selected courses from outside the urban and regional planning curriculum, focusing on a particular aspect of urban and regional planning which relates to the student's thesis topic. Students prepare a draft outline of the thesis and write a preliminary chapter or discussion paper which normally deals with the theoretical background or broad context of the topic selected for study.

Course: BN73

Credit Points: 12 Contact Hours: 2.5 per week

■ PSN113 OPTION PROJECTS

Working in small groups, students undertake projects which broadly relate to their theses topics. Projects may relate to topics such as urban development and design, regional development planning and management, recreation and tourism planning, and planning in developing countries.

Course: BN73

Credit Points: 12 Contact Hours: 2 per week

■ PSN114 METROPOLITAN PLANNING PRACTICE & LAW

Growth and changes in metropolitan areas with particular reference to Australia; urban sprawl or urban

consolidation; the future of metropolitan Brisbane; the current planning and legislative framework; suggestions for reform; group project on an aspect of metropolitan planning, normally in Brisbane.

Course: BN73, IF64

Credit Points: 12 Contact Hours: 3 per week

■ PSN121 PLANNING PROJECT

The thesis is normally required to be 30-50,000 words in length, and is related to the Concentration Studies and Option Project chosen by the student. The precise subject and objectives are chosen in consultation with an appropriate tutor. Field work is usually a necessary component of the research required in the production of the Planning Thesis which should make an original contribution to knowledge in the field of urban and regional planning to a closely related area.

Course: BN73

Credit Points: 24 Contact Hours: 1 per week

■ PSN122 PROFESSIONAL SEMINARS

Contributions by local and visiting speakers with specialist expertise or knowledge of specific issues or projects related to the work and interests of the built environment professions. Master of Built Environment students are expected to attend and to participate fully in the discussions.

Course: BN73

Credit Points: 6 Contact Hours: 2 per week

■ PSN123 PLANNING IN DEVELOPING COUNTRIES

The concept of the Third World: characteristics and setting; theories of national development relevant to the Third World; the roles of international agencies, governments, expatriate urban and regional planners, local expertise and the international community; the problems of rapid social and cultural change; the role of nationalism. Urban issues: rapid urbanisation, dual economies, the provision of shelter, squatters, social and physical infrastructure. Rural issues: definitions and theories of development; rural development schemes and case studies: capital land and labour intensive schemes; economic transformations; the future of urban-rural relations in developing countries.

Course: BN73, IF64

Credit Points: 6 Contact Hours: 2 per week

■ PSN124 OPTION COURSE

This course is developed by senior academic staff in response to matters of current significance; there are also opportunities to select appropriate elective courses from elsewhere within and outside QUT.

Course: BN73

Credit Points: 12 Contact Hours: 2 per week

■ PSN125 HOUSING POLICY & HOUSING PROBLEMS: AN INTERNATIONAL PERSPECTIVE

Seminar course focusing on the various social and economic contexts within which housing systems operate through a comparative transnational perspective of housing problems and the range and effectiveness of policies. The economic institutions, social goals, policy processes, and actual outcomes of programs. The distribution of housing, the role of the market and the degree of intervention by public sector agencies. Case studies from free market environments, such as the USA; more regulated markets, such as those of Western Europe; and the rapidly changing circumstances of Eastern Europe.

Course: IF64

Credit Points: 12 Contact Hours: 3 per week

■ PSN126 THE AUSTRALIAN HOUSING SYSTEM & POLICIES

Demographic, social and economic trends impacting housing markets in Australia, the evolution of post World War II government housing policies, including public/social housing programs of States, the Commonwealth States Housing Agreement, and the community and Local Government Programs. Access to affordable housing. Housing finance and subsidy schemes for home ownership, private rental and public housing. Housing management issues for public sector housing agencies and community housing schemes.

Course: IF64

Credit Points: 12 Contact Hours: 3 per week

■ PSN201 MASTERS STUDIO

Students select a specific studio related to the proposed focus of study. Studios are organised on a thematic rather than a purely disciplinary basis and projects will involve members of several disciplines in schemes of varying scales. Advanced problem solving and interactive skills are required. Emphasis is placed on coordinated and managed group activity and resulting high levels of team output are expected. Professional aspects of project activities are supported by input on advanced aspects and concepts.

Course: BN73

Credit Points: 12 Contact Hours: 3 per week

■ PSN202 ADVANCED PRACTICE 1

Presumes prerequisite understanding of practice relationships and processes. Emphasis is on the establishment and development of new markets and appropriate methodologies.

Course: BN73

Credit Points: 4 Contact Hours: 1 per week

■ PSN203 ADVANCED PRACTICE 2

See PSN202.

Course: BN73

Credit Points: 8 Contact Hours: 2 per week

■ PSN204 PRACTICE SEMINAR

Students are required to prepare and present a formal seminar on a professional topical subject and to participate in those presented by fellow students.

Course: BN73

Credit Points: 4 Contact Hours: 1 per week

■ PSN205 PROFESSIONAL SEMINARS

This unit provides a forum for interdisciplinary discussion. Local and visiting speakers contribute specialist expertise and knowledge of specific issues or projects related to the work and interests of the contributing majors.

Course: BN73

Credit Points: 8 Contact Hours: 2 per week

■ PSN206 RESEARCH METHOD

Students are introduced to issues related to the purpose, organisation, and conduct of research and to a range of appropriate techniques for the collection and analysis of information relating to their dissertation topics. The current state of research and publication in the profession is highlighted.

Course: BN73

Credit Points: 4 Contact Hours: 1 per week

■ PSP001 ENVIRONMENTAL IMPACTS

Applied studies in ecological systems. The influence of these systems collectively and separately on environmental design decisions. Environmental impact studies and assessment techniques; statutory assessment systems.

Course: PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP002 HISTORY OF PLANNING

Links between society, ideas and urban form. Urban evolution from ancient to modern times in Africa, Asia, Europe, America and Australasia. The industrial revolution and its effect on urban form and on planning ideas. Australian urban history and the development of environmental management and town planning in Australia.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP003 ECONOMICS OF TOWN PLANNING

Land use allocation and location. Theories of urban growth. Economic aspects of planning issues. Analysis of communities and localities. Employment and the labour market. Land values, densities and patterns. Urban renewal. Costs and finance.

Course: PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP011 CONSERVATION THEORY

Introduction to the concepts of conservation and preservation. Outline of the development and current status of the conservation movement. The structure of conservation legislation and responsibility in Australia. ICOMOS and the Burra Charter. The particular requirements of places, landscapes, and precincts in mixed or public ownership. Application of conservation concepts and their use in the National Listings process. Local and regional case studies.

Courses: BN73, PS66, PS69

Credit Points: 3 Contact Hours: 1 per week

■ PSP019 PLANTING DESIGN

Design characteristics and criteria. The use of plants as structural and design elements within landscape. Principles of planting design. Scale. Design for change, growth, replacement, and maintenance. Planting design in typical schemes such as streets, highways, parks, urban forecourts and interior plantscapes, gardens, and broad scale regeneration.

Course: PS66

Credit Points: 3 Contact Hours: 1 per week

■ PSP059 POPULATION & URBAN STUDIES

Basic urban definitions, spread and characteristics of urbanisation, structure of cities, economic and social processes at work within cities, particular aspects such as housing and gentrification, basic concepts of population and demography, recent and historical analyses of the Australian population, familiarisation with the role of ABS and with statistical and data analysis of population, world demographic trends.

Courses: BN30, HL88, PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP060 SCHOOL FIELD TRIP

One field course of approximately seven to ten days duration to provide a comparative dimension to students' studies and to develop skills in observation, data collection, recording and interpretation.

Course: PS67

Credit Points: 4 Contact Hours: 7-10 days

■ PSP063 HOUSING & COMMUNITY SERVICES

Social justice in the provision of Housing and Community Services. Demographic change; household formation and characteristics; projection of housing stock, tenure, and roles of providers. Significant problems such as homelessness, housing related poverty and the special housing needs of vulnerable groups. Case study examples from interstate and overseas.

Courses: HL88, PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP077 TRANSPORT PLANNING

Movement and its alternative modes: foot, cycle, car, bus, train, plane, pipeline, inland waterway and marine modes. The origin and destination approach to traffic management interchange studies. Inter-urban traffic and regional transport planning. This relationship between land use and traffic generation.

Courses: BN30, PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP078 URBAN LAND DEVELOPMENT

Structural and engineering design requirements in urban development – local physical services, roads and drainage, sewers, water, gas, electricity and Telecom service. Design and control systems, design standards, the effects of standardised requirements and alternative approaches. The roles of statutory authorities – gas, electricity, water, telephone, public transport, railways, waterways, road construction authorities. Development teams – the roles of associated disciplines – civil, municipal and transport engineers, earth and environmental scientist, and others. The role of the private developer.

Courses: BN30, PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP110 SITE PLANNING PRACTICE & LAW

Applications of site planning principles and theory at various scales. Natural and human influences in physical design. Environmental implications of site survey and analysis methods and techniques. Landform manipulation. Alternative concepts formulation and decision-making.

Course: PS67

Credit Points: 12 Contact Hours: 4 per week

■ PSP112 SITE PLANNING METHODS

Natural influences in physical planning: geology, climate, topography, hydrology, soils and vegetation, etc. Ecological considerations in design and development processes. Impact of natural hazards and other physical constraints on design, including air, water, and noise pollution. Impacts of development on the environment. Landscape evaluation techniques.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP113 THEORY OF SITE PLANNING

Exploration of open space theory of regional and local scales; definition of spatial characteristics by edges, nodes, landmarks, districts, and paths. Sense of place, structure and form, legibility, imageability, etc; human responses and expectations and their effects on site planning decisions.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP114 INTRODUCTION TO MAPS & AIR PHOTOS

Types of maps, their uses and limitations. Orientation scale, cartographic symbols, representation of relief, etc. grid coordinates. Vertical and oblique air photos; black and white, colour, false colour. Mosaics and stereopairs. Introduction to stereoscopy and simple mapping from air photos. Introduction to various types of remote sensing imagery available to planners.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP115 PLANNING PROCESSES

Art, design and science as creative processes. Knowledge, interpretation and prediction in planning and design. Public interest and individual preference. Values, activities and land use. Activity systems. Planning and

design processes. Objectives, synthesis and analysis. Policy development and alternative strategies. Evaluation.

Course: PS67

Credit Points: 8 Contact Hours: 2 per week

■ PSP120 URBAN DESIGN PRACTICE

Projects involving individual and group work focussing on practical planning and design in a specific urban community. Practical residential subdivision.

Course: PS67

Credit Points: 12 Contact Hours: 3 per week

■ PSP126 URBAN DESIGN METHODS

Design method, visual thinking; principles of perception and spatial arrangement; the vocabulary of design and urban imagery; design elements; the evolution of designer theory; techniques for analysing the quality of existing built environments; analysis of examples. Urban design project.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP130 PLANNING PRACTICE & LAW (URBAN)

This unit takes the form of a problem solving group project set in an inner metropolitan or small town location, often undertaken in conjunction with local communities and councils. In the course of the project, which is accompanied by a series of lectures, the student group formulates policies and strategies relating to a specific urban area. Topics discussed are the statutory basis for urban planning and development in Queensland, including land use allocation, zoning, development control, statutory and non-statutory plans, consultation and participation, and the sources and use of statistical and other data.

Course: PS67

Credit Points: 12 Contact Hours: 4 per week

■ PSP133 RURAL LAND USE & PLANNING

Rural Land Use Patterns: The characteristics and dynamics of rural land uses – forestry, pastoral and arable agriculture, extractive industries, water collection, recreation and tourism, conservation systems. Impacts of rural resource developments. Rural planning and characterisations of rural settlements. The rural urban fringe. Rural issues, problems and conflicts. Case studies of rural land use, abuse and conservation in Australia and overseas. Associated project and field work.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP134 THEORIES FOR PLANNING

The locus and exercise of power in society, structure of society with particular reference to Australia. The structure of the Australian federal system of government and the impact of this on the way cities are governed. An investigation of organisational culture and change, organisational structures, inter-organisational relations, and approaches to improving organisational performance. Ideas and theories in planning; theory as a basis for practice. The political and philosophical determinant of land use planning. Values in planning, models of human nature and planning's relationship to important value traditions; liberalism, utilitarianism, empiricism, idealism, socialism, conservatism. The concepts of the public interest, social justice and public intervention.

Course: PS67

Credit Points: 12 Contact Hours: 3 per week

■ PSP136 REGIONAL PLANNING METHODS

Regionalism. Principles of regional planning. Roles and types of regional planning. Administration and

organisation. Physical, ecological, economic, demographic and social analysis. Settlement patterns and hierarchies. The metropolitan region.

Course: PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP137 RESOURCE MANAGEMENT

Aims and processes of resource management; alternative approaches and techniques, resource inventories and evaluations. Environmental impact analysis and statements, statutory requirements. Multipurpose schemes and planning and management of regional landscapes in Australia and overseas. Policy studies of land and resource management schemes.

Course: PS67

Credit Points: 8 Contact Hours: 2 per week

■ PSP138 COMPUTER APPLICATIONS IN PLANNING

Applies the introductory material in ISB183 to specific urban planning applications. This will include, but is not limited to use of spreadsheets for analysis and projection, linking spreadsheets to ABS demographic data, applications of data bases, applications of GIS and use of purpose-designed programs.

Course: PS67

Credit Points: 6 Contact Hours: 2 per week

■ PSP140 PLANNING PRACTICE & LAW (REGIONAL & STRATEGIC)

Statutory basis of strategic planning; regional planning; the case of Queensland. Strategy and policy formulation in a group project in a specific region.

Course: PS67

Credit Points: 12 Contact Hours: 4 per week

■ PSP144 URBAN POLICY IMPLEMENTATION

The role of implementation and evaluation in the urban policy process. The barriers to implementation and strategies for overcoming them. Methods for evaluating urban policies. Development of skills for improving implementation of urban policies, including conflict resolution and negotiation skills.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP145 SOCIAL PLANNING

The genesis of social welfare policies in Australia: employment, health, housing, income and education. The aims and conduct of social surveys. Community development and organisation schemes in Australia and overseas. Public participation and community action; planning aid and advocacy planning.

Courses: HL88, PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP146 PROCEDURAL PLANNING THEORY

Theory, explanation and prescription and the development of planning and decision theory; comprehensive planning and incrementalism, flexibility and commitment, the management of uncertainty, levels of decision making; the concept of mixed scanning, strategic and local planning, procedural planning theory and recent critiques.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP147 PROFESSIONAL PROCEDURES & ETHICS

Nature and role of a profession and professionalisation; codes of practice and ethics; role of the expert witness; professional conflict; the role of the professional planner in public and private practice; office practice and

procedures, filing, costing, control systems, preparation of briefs, estimating.

Course: PS67

Credit Points: 4 Contact Hours: 1 per week

■ PSP150 RESEARCH METHODS & INDIVIDUAL PROJECT

Different approaches to research, and ways of selecting the most appropriate one. The place of objectives in research method; delimitation of areas of concern; structuring the research program; identification of primary and secondary sources; purposes and limitations of analysis; selection and adaptation of techniques. Ways of presenting research findings. Preparation of an individual research study.

Course: PS67

Credit Points: 16 Contact Hours: 2 per week

■ PSP210 HISTORY OF LANDSCAPE DESIGN

The form, content, influencing factors, and implications of the creation and development of historically, regionally, and religiously significant consciously designed landscape throughout the world; the evolutionary processes of cultural landscapes.

Course: PS66

Credit Points: 3 Contact Hours: 2 per week

■ PSP212 USER & CHARACTER DESIGN STUDIES

Theory: open space and place theory; definition of spatial characteristics; sense of place, structure, form, and legibility; concepts of human functioning in environment; role of privacy, personal space, territorial behaviour; human adaptation to environment; evaluation and observation techniques. Studio: studies of spaces to determine user behaviour and requirements; analyses of inherent character and user needs and responses; abstractions expressing spirit of places.

Course: PS66

Credit Points: 12 Contact Hours: 6 per week

■ PSP213 SITE PLANNING

Theory: processes of site planning and detailed site design; survey and analysis phases; information required; processing of data; data analysis; generation of solutions in conceptual form as basis for strategic planning; Studio: application of theory, principles, and techniques at all scales; site utilisation and selection; environmental and social implications of design decisions; siting and integrating activities, structures, and services; land form manipulation.

Course: PS66

Credit Points: 12 Prerequisite: PSP212 Contact Hours: 4 per week

■ PSP214 RESIDENTIAL LANDSCAPE DESIGN

Theory: introduction to the range of housing and subdivision types; consequences for design; controls, by-laws, standards, and regulations; relevant overseas, Australian, and local examples; residents' expectations and development of attitudes to suburban and urban living; design considerations. Studio: intensive program requiring group and individual work; critique; subdivision layouts; detailed setting/use design within specific development type.

Course: PS66

Credit Points: 12 Prerequisite: PSP213 Contact Hours: 3 per week

■ PSP215 URBAN LANDSCAPE DESIGN

Theory: client and user analysis, data gathering and information requirements, programming of work for site planning and detailed design services, programming of implementation; user/function analysis and site capacity considerations; preparation of a project brief;

space theory and principles of spatial design. Studio: a medium scale intensive/multiple use project which demands redesign and rehabilitation; project site(s) visits and site surveys and client interviews to establish project briefs and carry out the design project; an advanced level of professional presentation is attached to the project output.

Course: PS66 Prerequisite: PSP213
Credit Points: 12 Contact Hours: 3 per week

■ PSP216 LANDSCAPE PLANNING

Studies of medium to large-scale projects involving a range of biophysical, cultural and visual issues with a relatively high degree of complexity; focus on assessment and evaluation of related landscape attributes and issues with emphasis on deriving landscape management options in the form of policies, guidelines, and implementation strategies; studio incorporating lecture/seminar program to promote an understanding of the theoretical framework of landscape planning.

Course: PS66 Prerequisite: PSP213
Credit Points: 12 Contact Hours: 4 per week

■ PSP217 LANDSCAPE DESIGN

Cultural Values: concepts of garden, landscape, environment; landscape as art or artefact; fine arts tradition; iconography; picturesque and gardenesque influences; environmental romanticism; functionalism, symbolism, and meaning; quantification of aesthetic and personal response. Studio: design problems of increased scope, complexity, and constraint; resolution at broad scale; contextual concepts; detailed resolution; professional communication.

Course: PS66 Prerequisites: PSP214, PSP215
Credit Points: 18 Contact Hours: 5 per week

■ PSP220 INTRODUCTION TO PRACTICE 1

Concept of professionalism; current issues and controversies; roles and ranges of employment; the professional Institute; private and public practice responsibilities and activities; opportunities and potentials; associated professions; review of relevant laws, regulations, and their interpretation; overview of other aspects of 'environmental law'; formal writing techniques (reports, instructions, proposals (plus CV/folio), correspondence, text for publication); report structuring; complementary use of graphic material.

Course: PS66
Credit Points: 6 Contact Hours: 3 per week

■ PSP221 INTRODUCTION TO PRACTICE 2

Professional liability, design registration, copyrights; formal oral communication techniques (meetings, conferences, interviews, presentations); time and percentage measurement and costing of relevant professional services; units of management and costing of broad development types; techniques of cost control.

Course: PS66 Prerequisite: PSP220
Credit Points: 6 Contact Hours: 3 per week

■ PSP222 LANDSCAPE PRACTICE 1

Contracts: principles of contract law; forms of contract; standard conditions of contract and engagement; specific requirements of contract documents. Forum/Workshop: discussions structured around topical issues as debates, panels, or seminars involving visiting specialists and/or participants.

Course: PS66 Prerequisite: PSP221
Credit Points: 6 Contact Hours: 2 per week

■ PSP223 LANDSCAPE PRACTICE 2

Practical experience: minimum of three weeks in approved landscape architectural office. Contracts: contract administration; case studies; professional presentation.

Course: PS66
Credit Points: 3

Prerequisite: PSP222
Contact Hours: 2 per week

■ PSP230 LANDSCAPE ECOLOGY 1

Plant science: plant systematics and taxonomy; classification; identification including field methods and keys; familiarisation with commonly used species; physiological processes related to growth, stress, and diseases. Plant ecology: the organism as an ecological unit; concept of species; functional ecological units; populations; limiting factors; niche; resources, competition, and dynamics of plant communities; introduction to ecosystems and energy flows.

Course: PS66
Credit Points: 6 Contact Hours: 4 per week

■ PSP232 LANDSCAPE ECOLOGY 2

Broad divisions of the earth related to climate and soils: biomes, formations, alliances, associations, and societies; the ecosystem concept and its development and application; plant communities as expressions of ecosystems; energy and water balance; concepts of community ecophysiology and growth equations; vegetation classification in Australia and its functional significance; ecological biogeography of Australian vegetation; classification of landscape: concepts of biogeographic regions, provinces, land systems, and land units; landscape structure and function and significance for conservation planning; landscape ecology and landscape planning practice.

Course: PS66 Prerequisite: PSP230
Credit Points: 9 Contact Hours: 3 per week

■ PSP233 IMPACTS & ASSESSMENT

Decision-making and conflict resolution techniques relevant to land and other natural resource planning and management; analysis of ecological processes as background to assessing impact of human activities or urbanisation, resource exploitation, mining, and other landscape changes; statutory assessment systems especially those pertaining to Queensland and under Federal legislation.

Course: PS66 Prerequisite: PSP230
Credit Points: 3 Contact Hours: 2 per week

■ PSP234 LANDSCAPE MANAGEMENT A

Horticulture, urban horticulture, arboriculture, landscapes: production of plant material; standards; site preparation; planting and establishment (including grasses); plant management; bushland management; regeneration techniques; pests, diseases, and their control; monitoring and maintenance programming. Relationship between management and construction: created/dependent and constructed landscapes; specifying and programming construction and management as part of design implementation; specialisations and appropriate case studies.

Course: PS66
Credit Points: 6 Contact Hours: 4 per week

■ PSP235 LANDSCAPE MANAGEMENT B

Landscape Assessment: visual and scenic quality assessment; EIA components; current procedures and applications. Computer Techniques: types of GIS; potentials, problems, current issues; computerised three-dimensional modelling. Advanced Landscape Ecology: human settlement impact on structures; interactions; connectivity and dispersal; landscape and vegetation dynamics; conservation evaluation; habitat reconstruction. Rural Land Use: issues and systems; characteristics of rural settlement; catchment management; ecosystem protection. Resource Management: issues and systems; inventories and evaluation; conflict resolution; concept of sustainable development;

conservation strategies; resource management policies.

Course: PS66

Prerequisite: PLP514

Co-requisite: PSP216

Credit Points: 6

Contact Hours: 4 per week

■ PSP240 LANDSCAPE GRAPHICS 1

Lettering, layout, and visual themes in display communication; scale, emphasis, readability, and organisation of various types of information: photos, diagrams, text, plans, etc.; use of diagrams as major tools to explore and to communicate information from concepts through to physical relationships; range of sketch types and appropriateness to different types of work such as exploration of form, analysis, and communication of concepts.

Course: PS66

Credit Points: 6

Contact Hours: 3 per week

■ PSP241 LANDSCAPE GRAPHICS 2

Combined application of freehand, drafting and colour techniques. The selection of colour, theme and emphasis in graphics packages. Realism, abstraction and symbolism in landscape communication. Monochromatic graphics for simple reproduction. Integration of various graphic techniques and media. Efficient processes for production and reproduction.

Course: PS66

Prerequisite: PSP240

Credit Points: 6

Contact Hours: 2 per week

■ PSP242 ADVANCED LANDSCAPE GRAPHICS

Variety of techniques of presentation graphics; three-dimensional presentation in Drawn and Modelling Forms; animation additions to presentation drawings; section and perspective exploration for design and detail communication; visual presentation packages suited to particular client types.

Course: PS66

Prerequisite: PSP241

Credit Points: 6

Contact Hours: 2 per week

■ PSP250 MAP & AIR PHOTO INTERPRETATION

Types, sources, uses and availability of maps and air photos, map reading, understanding of contours, land form and use of sections; methods and techniques of map production; introduction to photogrammetry and use of stereoscopes; introduction to remote sensing.

Course: PS66

Credit Points: 3

Contact Hours: 1 per week

■ PSP251 LANDSCAPE CONSTRUCTION 1

■ PSP252 LANDSCAPE CONSTRUCTION 2

Basic Site Measurement: equipment; techniques of use for horizontal and vertical measurement; recording of results; preparation of site drawings. Introduction to structures: definition of terms; basic actions/reactions of beams, columns, slabs, structural units, and types of structures; loadings and types including wind loading. Properties and application of common construction materials in landscape situations: concrete, masonry, stonework, timber, metalwork, glass, applied finishes; foundation soils; basic services of site storm water drainage, water and electricity; applied systems; construction for planting and small water features. Grading: manual techniques of land surface manipulation for site uses including building platforms, carparks, sports ovals, and surface drainage. Technical Drawing and Documentation: establishment of sound techniques of technical drawing in the preparation of construction documents.

Course: PS66

Credit Points: 9 each unit

Contact Hours: PSP251: 4 per week; PSP252: 3 per week

■ PSP253 ADVANCED LANDSCAPE CONSTRUCTION 1

■ PSP254 ADVANCED LANDSCAPE CONSTRUCTION 2

Landscape Construction: platforms; land stability and stabilisation; clearing; demolition; earth dams; lakes; broad scale stormwater drainage; sporting facilities; irrigation. Engineering services and structures: subdivision engineering; hydrology; hydraulic structures; coastal engineering; water supply, sewerage; construction planning and control. Documentation: working drawings; specifications; bills; schedules; methods of production. Computer Support; database management software; Autocad graphics.

Course: PS66

Prerequisites: PSP251, PSP252

Credit Points: 6 each unit

Contact Hours: 3 per week each unit

■ PSP260 SCHOOL FIELD TRIP

The field trip is a 7-10 day organised trip either interstate or in Queensland away from Brisbane. Environments may be natural, rural, or urban and the work and issues for discussion may relate to any or all of these. Current projects and complexity, areas of work, or contextual issues not able to be experienced locally form the major thrust of the field trip.

Course: PS66

Credit Points: 3

Contact Hours: 7-10 days

■ PSP311 PROFESSIONAL PRACTICE MANAGEMENT

Business communication; oral communication, interviews, meetings, workshops and seminar presentations; office management; small business law; trade practice, contract, taxation, employment; workplace and safety legislation; professional ethics, professional bodies, Surveyors Act and Regulations, disciplinary procedures, relationships, clients and marketing; survey integration; aspects of change; roles of barrister and solicitor; brief for court appearance; expert witness; government agencies.

Course: PS68

Credit Points: 12

Contact Hours: 9 per week

■ PSP312 SURVEY COMPUTING & PROCESSING

DOS operating system and computer programming; word processing, project management, spreadsheets; programmable calculators for field use; surveying and drafting packages; management and technical applications.

Course: PS68

Credit Points: 8

Contact Hours: 6 per week

■ PSP313 SURVEY PROJECT MANAGEMENT

Quality assurance; client requirements, submission, execution and wrap-up; complex projects, involving resources, costs and timing; network methods; project management software; time costing, hourly rates and chargeable time; involvement with clients and other consultants; project team building; project specifications; technical requirements – field methods, booking forms and equipment; overseas projects.

Course: PS68

Credit Points: 8

Contact Hours: 6 per week

■ PSP314 BOUNDARY DEFINITION SURVEYS 1

Land registration requirements; cadastral history, field procedures and records; reinstatement theory and practice related to urban and rural boundaries; field survey work involving the redefinition of urban and rural boundaries; office reinstatement exercises of increasing

complexity to develop the necessary skills in assessing various types of survey problems; office completion of project work, including plan preparation using appropriate computer technology.

Course: PS68

Credit Points: 12 Contact Hours: 9 per week

■ PSP315 PROPERTY DEVELOPMENT SURVEYS

Legislation; urban and rural subdivision design and requirements; procedures involved with rezoning and subdivision applications; building units and group titles developments; multiple use development.

Course: PS68

Credit Points: 8 Contact Hours: 6 per week

■ PSP321 SPATIAL INFORMATION SYSTEMS

Assessment of maps and aerial photographs as data sources; mapping specifications; planning mapping projects; aerial photography, flight planning and costing; ground control requirements, including placement of ground targets and photo identification of ground points; aero triangulation, stereo plotting, map production and digital data aspects; planning, costing and preparation of specifications for comprehensive mapping task; GPS theory and practical application; LIS/GIS technology and its practical application.

Course: PS68

Credit Points: 8 Contact Hours: 6 per week

■ PSP322 ENGINEERING SURVEYING

Assessment of available technology, configuration of measuring systems and recording of data; project definition, preparation of specifications including field methodology, documentation requirements of field records, determination and assessment of results; management of engineering survey projects, including costing, submissions, working with other professionals, dealing with on-site variations; long-line survey control; road surveys; flood surveys; curves, batter staking, other marking for construction and road design.

Course: PS68

Credit Points: 12 Contact Hours: 9 per week

■ PSP323 PROJECT SITE SURVEYS

Detail surveying; methods, equipment, data requirements and data transfer; specifications and estimate of costs; field detail survey; processing of field data, report and plan presentation; types of construction and building control surveys; preparation of plans and specifications; building construction site inspection; instructions, documentation and communication with contractors; high precision survey and error adjustment techniques involved with construction and building control surveys; construction site set out calculations.

Course: PS68

Credit Points: 8 Contact Hours: 6 per week

■ PSP324 BOUNDARY DEFINITION SURVEYS 2

Complex and difficult reinstatement exercises; field survey project work associated with difficult boundary definition; field survey project work associated with boundary definition for easement surveys and mining lease surveys.

Course: PS68

Credit Points: 12 Contact Hours: 9 per week

■ PSP325 PROPERTY MANAGEMENT SURVEYS

Requirements for survey and registration of plans in various Government Acts relating to surveying; easements for transmission lines; easement surveys; dealing with client, proposal, costing and submission,

field survey and plan preparation; road closures, location certificates and lease surveys; Cadastral survey problem areas.

Course: PS68

Credit Points: 8 Contact Hours: 6 per week

■ PSP401 URBAN DESIGN ANALYSIS STUDIO

This unit emphasises the development of skills in analysis related to the urban design process and adequate communication of the results.

Courses: BN73, PS69

Credit Points: 12 Contact Hours: 3 per week

■ PSP402 URBAN DESIGN CONTEXT STUDIO

Students undertake studies typically from a community participation project, a sense of place project, a conservation and infill project for the redevelopment/rehabilitation of urban precincts or residential areas. Techniques of guidance and control: the use of regulations, ratios, and performance standards. Positive planning and the use of incentives for good design: bonuses, transferable rights, advance publication of permissible development, rapid decisions, early dissemination of information. Work in other units of study is related to this unit.

Courses: BN73, PS69

Credit Points: 12 Contact Hours: 3 per week

■ PSP403 URBAN DESIGN CONJECTURE STUDIO

Identification and classification of approaches to urban design. The setting of objectives, the adoption of a method and the testing of implications for a particular urban design problem type. Students are required to undertake studies typically from: local area, precinct, part of the city, the city as a whole. Where applicable, work in other units of study is incorporated into this unit.

Courses: BN73, PS69

Credit Points: 12 Contact Hours: 3 per week

■ PSP405 URBAN DESIGN FIELD STUDIES

This unit consists of a field trip of approximately ten days duration. Visits to successful and unsuccessful examples of urban design and to design offices in the eastern states and the Australian Capital Territory. Students analyse existing and proposed examples in the context of their original design criteria including cultural, social, political, economic and physical aspects to understand the applicable design rules. Examples are reviewed through site visits, discussion and seminars with designers and users.

Courses: BN73, PS69

Credit Points: 4 Contact Hours: 10 days

■ PSP411 ENVIRONMENTAL PSYCHOLOGY

The social and cultural development of Australian urban environments, with particular reference to the local built environment. The study of human functioning in urban environments. Theory: privacy, person space, territoriality, environmental meaning and cognition, cognitive ways and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban environment or an artefact with respect to its sociocultural function.

Courses: BN73, PS69

Credit Points: 4 Contact Hours: 2 per week

■ PSP416 COMPUTER AIDED DATA ANALYSIS

The development of skills and application of computer aided data analysis in landscape architecture. The emphasis is on building graphical data and attribute data

skills; database management software; input and manipulation of data; development of graphic skills using the Autocad system.

Courses: BN73, BN75, PS69

Credit Points: 2

Contact Hours: 1 per week

■ PSP421 HISTORY OF URBAN SYSTEMS

Analysis of urban forms and systems in the pre-industrial, industrial and post-industrial periods. Specific topics include urban activities: commerce, manufacture, administration, dwelling, recreation and culture; urban services: water supply, transportation, defence and public order, fire control, sewerage and waste disposal, fuel and power, public information; urban form: planning for intelligibility, planning for propriety and symbolism, planning for delight.

Courses: BN73, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PSP424 URBAN DESIGN THEORY & CRITICISM

The characteristics of good theory in the field of urban design in relation to the work of a number of theoretical writers and schools. Specific topics include theoretical writing on urban design before 1800, theory and practice in the nineteenth century, the *kunstlerischen Grundsätzen* of Camillo Sitte, the Garden City movement, Le Corbusier and Modernism, the Townscape movement, Jacobs and 'The Death and Life of Great American Cities', Alexander on the urban system, the intelligible city, the work of Lynch and Appleyard, Rapoport on urban meaning, Habraken, Rowe and the city as independent artefact, Canter, Relph and Tuan on the phenomenology of the city, Maitland's analysis of urban design concepts.

Courses: BN73, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PSP432 URBAN LANDSCAPE

The city as a landscape unit, examples of city/site relationships; contribution of natural factors and patterns: topography, soils, drainage, vegetation, climate; towards better delineation of urban form and character. Spaces and their organisation, the city as spatial entity, sequential experience; spaces for specific purposes; choreography of spaces: use, settings, and furnishings, enclosures, floors, overhead structures, services, features, finishes. Natural elements and their nurturing within urban areas: vegetation species, groupings, their requirements, streets, plazas, forecourts, roofs, urban forests, natural areas; water bodies and their conservation as healthy features; urban wildlife: habitats and contribution to the urban experience; landscape conservation techniques in urban areas.

Courses: BN73, IF64, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PSP434 URBAN SERVICES & FUNCTIONS

Urban services: functional services of power, telephone, gas, water, stormwater and sewerage reticulation; controlling authorities, planning requirements and controls relevant to urban design. Community services related to health, safety, and welfare: such as medical, fire, emergency services, libraries, police, community participatory groups; controlling authorities, extent of services provided and controls relevant to urban design. Origins and destinations of traffic movements. The road hierarchy and its characteristics. Features of major terminals, car parks, pedestrian and cycle networks. Modes of travel and transport systems, railway and light rail, water, evaluation of comparative system. Major traffic generators: airports, terminals, CBD circulation. Related environmental and design issues: noise, atmospheric pollution, physical and visual impacts of differ-

ent systems and traffic channels. Future trends in transport and movement systems and related issues.

Courses: BN73, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PSP441 COMPUTER APPLICATIONS IN URBAN DESIGN

The use of computers to analyse and solve urban design problems and communicate solutions. Feasibility studies; land use studies; generation of envelope and space layouts; environmental and service systems analysis; development control testing; data handling and manipulation; computer graphics; interactive integrated design systems.

Courses: BN73, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PSP442 LAW & LEGISLATION IN URBAN DESIGN

Legislative controls and law reform related to urban design and the development process with specific reference to Queensland. Topics include the potential range of legislative controls, principal relevant legislation in Queensland and its impacts on urban design, the development control authority, arbitration processes of the State Government and influence of additional legislation (eg. Group Title, Heritage Acts, pedestrian malls) on the urban design process.

Courses: BN73, PS69

Credit Points: 4

Contact Hours: 1 per week

■ PST901 ENGINEERING SURVEYING

Fundamental survey concepts, coordinate systems, differential and simple ingometric levelling, angular measurements; bearing and azimuth; linear measurements by steel tape and stadia.

Course: CE21

Credit Points: 7

Contact Hours: 3 per week

■ PUB109 INTRODUCTION TO ENVIRONMENTAL HEALTH

Students are introduced to a brief history of environmental health in Queensland. The current issues of environmental health within the public health agencies at all levels of government and the principal public health legislation in this state is reviewed. Students develop an understanding of the complexity of environmental systems, the effects of pollutants on such systems and the interdisciplinary approaches needed to address these problems.

Courses: NS40, NS48

Credit Points: 8

Contact Hours: 3 per week

■ PUB130 AUSTRALIAN HEALTH INDUSTRY

A broad overview of the systems of health care in Australia and their methods of operation. The public and private health and medical care sectors are discussed. The political environment, health care institutions, community health, public health, and the problems of co-ordination and integration of health services are also studied.

Course: PU48

Credit Points: 12

Contact Hours: 3 per week

■ PUB207 INTRODUCTION TO ENVIRONMENTAL HEALTH

A brief history of environmental health in Queensland; the current role of environmental health officers within the public health agencies at all levels of government and the principal public health legislation in this State; development of an understanding of introductory law and environmental law, the complexity of environmental systems, the effects of pollutants on such systems and the interdisciplinary approaches needed to address

these problems; aspects of professional communications and report writing.

Course: PU42

Credit Points: 12 Contact Hours: 4 per week

■ PUB210 OCCUPATIONAL HEALTH & SAFETY 1

The basic concepts of occupational health and safety, such that they can identify health and safety problems in the workplace; strategies for dealing with such problems, and the legislation, government agencies and health personnel associated with the working environment. Topics covered include the physical, chemical and biological working environments and temporal work patterns.

Courses: ME46, PU42

Credit Points: 8 Contact Hours: 4 per week

■ PUB211 OCCUPATIONAL HEALTH & SAFETY 2

Develops further the principles covered in PUB210 and PUB212 and highlights their practical application to the workplace. Students also develop knowledge and skills associated with the actual measurement of the physical and chemical working environment, physiological effects on humans in the workplace and evaluation of the data collected.

Courses: ME46, PU42, PU44

Prerequisites: PUB210 or PUB212

Credit Points: 8 Contact Hours: 4 per week

■ PUB212 OCCUPATIONAL HEALTH & SAFETY 1

The basic concepts and theoretical framework of occupational health and safety as noted in PUB210; introduces students to the communication skills and devices relevant to the profession. Students participate in single and group activities to develop English expression, public speaking, debating and discussion group skills.

Course: PU44, PU48

Credit Points: 12 Contact Hours: 4 per week

■ PUB220 MEDICAL TERMINOLOGY

Exploration of the language of medicine; analyses medical terms into Latin and Greek word roots, prefixes, suffixes, and combining forms. Medical terms which relate to specific body systems are defined, spelled and pronounced accurately; common abbreviations and symbols used in medicine are identified; abstracts from patient records are explained and interpreted in non-technical language.

Course: PU48

Credit Points: 12 Contact Hours: 3 per week

■ PUB233 INFORMATION, EDUCATION & COMMUNICATION FOR HEALTH

A study of the processes of communication in the health fields. It covers person-to-person communication such as patient-professional communication; communication in small groups; public education for health; diffusion and adoption of new health-related behaviours; the role of information; the use of mass media; communication within health organisations.

Courses: HM42, PU48

Credit Points: 12 Contact Hours: 3 per week

■ PUB241 HEALTH STUDIES 1

Overview the nature of health in Australian society; serves as the foundation study in this minor from which a number of separate, more detailed studies emerge in level 2 and 3 units; an understanding of broad health issues and problems is essential to equipping health educators for their roles in promoting optimal health of Australians, viz, addressing prevention of major risk

factors, and developing a commitment to promoting healthy lifestyles.

Course: ED41

Credit Points: 8 Contact Hours: 3 per week

■ PUB251 INTRODUCTION TO PUBLIC HEALTH

Introduction to the philosophy and approach of public health; the traditional public health process; the multidisciplinary nature of public health; health policy and its impact on public health; some recent reformulations of traditional public health approaches including: health promotion, intersectoral action for health and healthy public policy. The role of public health in Australia and overseas, its main components and some of the constraints faced by public health.

Course: PU48

Credit Points: 12 Contact Hours: 3 per week

■ PUB272 HOME ECONOMICS 2

The place of the consumer in the Australian economy; the consumer in the market place; alternatives to mass consumption; legal procedures; legal requirements regarding business transactions and business organisations; consumer protection; family and the law.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

■ PUB276 HOME ECONOMICS 1

Art elements and principles; qualities of natural and non-natural materials; design process; design presentation; effects of changing technology on form and construction; ergonomics.

Course: PU49

Credit Points: 12 Contact Hours: 4 per week

■ PUB299 HEALTH INFORMATION MANAGEMENT 1

An introduction to the principles of health record management and their application in hospitals; presents an overview of the interrelationships between the various processes of the medical record department and functionally related areas in health care facilities. Topics include: the structure, format and use of medical records, the function of medical record departments, quantitative analysis of medical records, and health information collection and retrieval systems, both manual and computerised.

Course: PU48

Credit Points: 12 Contact Hours: 4 per week

■ PUB300 POLLUTION SCIENCE 1

The causes, effects, control measures, standards and legislation relating to land contamination and solid waste management.

Course: PU42 Prerequisites: CHB242, PHB250

Credit Points: 8 Contact Hours: 4 per week

■ PUB301 ENVIRONMENT PROTECTION 2

The causes, effects, control measures, standards, legislation and management strategies relating to air and noise pollution.

Course: PU42

Prerequisites: PUB207, CHB242, PHB263

Credit Points: 8 Contact Hours: 4 per week

■ PUB302 PODIATRIC MEDICINE 1

The health, social and economic implications of podiatric care in the general population with particular reference to specialised groups, eg. children, diabetics, the aged and sports patients. It also provides foundation studies essential to the preclinical student in the diagnosis and treatment of conditions commonly manifest in the foot.

Course: PU45

Credit Points: 8 Co-requisite: PUB303 Contact Hours: 4 per week

■ PUB303 CLINICAL SCIENCE 1

On completion, students should be able to demonstrate competent operating skills; expertise in clinical observation of the patient and the elicitation of an accurate medical record; recognise common clinical entities and implement appropriate treatment and develop a professional attitude towards patients, clinical teaching and care of equipment.

Course: PU45

Prerequisite: MEB031

Co-requisite: PUB302

Credit Points: 12 Contact Hours: 6 per week

■ PUB304 PHYSICAL MEDICINE

Introduction to a wide range of diagnostic and physical treatment modalities used in modern podiatric practice. On completion, students should be able to understand the uses, applications, contraindications and limitations of each modality studied in direct connection with ongoing clinical studies and the theoretical component of podiatric medicine lectures.

Course: PU45

Prerequisite: LSB451

Co-requisites: PUB504, PUB410

Credit Points: 8 Contact Hours: 3 per week

■ PUB306 PHARMACOLOGY

Designed to ensure that students understand basic drug therapies their patients may be using, the groups of drugs used for specific diseases and their application and relevance to podiatry and clinical podiatry. Emphasis is placed on drug groups and their use for specific disease, rather than proprietary brands. Students learn to recognise the drug groups and know the system they are acting on in the body. In addition, differentiation between the different groups within one group of systemic drugs and why they are used for a condition is emphasised.

Course: PU45 Prerequisites: CHB242 or CHB289

Co-requisite: LSB371

Credit Points: 8 Contact Hours: 3 per week

■ PUB312 HOME ECONOMICS CURRICULUM STUDIES 1

Provides students with a range of understandings and competencies for analysing, interpreting and managing Home Economics classrooms in order to maximise learning. Long and short term planning is explored with an emphasis on planning, implementing and evaluating lessons using a variety of strategies, resources and assessment techniques. The nature of Home Economics and how this is manifest in curriculum documents are examined.

Course: ED50, ED54

Prerequisites: 48 credit points in relevant discipline area.

Credit Points: 12 Contact Hours: 3 per week

■ PUB313 DESIGN

Design has a relevance to both the teaching and learning process and the discipline of home economics. In the areas of textiles, food and shelter there is a role for the application of design as well as critical evaluation and communication of the products of design; provides students with generic design knowledge as well as experience in the application of this knowledge in the specific areas of home economics.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ PUB317 MANAGEMENT & CONSUMER STUDIES

Management and consumer issues pervade all areas of home economics. Management and consumer concepts pertinent to individual and group living leading to the optimising of well-being.

Course: ED50

Credit Points: 12

Contact Hours: 4 per week

■ PUB319 FOOD & NUTRITION

Issues related to choosing a diet which will promote health; nutritional needs for humans; translating these to food selection and preparation.

Course: ED50

Credit Points: 12

Contact Hours: 6 per week

■ PUB321 TEXTILES 1

Scientific understanding and aesthetic aspects of textiles, their selection, use and care, with reference to specific end uses; practical aspects of construction and surface design of textile articles; textile project.

Course: ED50

Credit Points: 12

Contact Hours: 6 per week

■ PUB322 HOME ECONOMICS CURRICULUM STUDIES 2

Encourages students to make independent judgements about Home Economics curriculum decision-making, within syllabus guidelines and broader systems policies concomitant with national and international trends in education and society. Students are given the opportunity to explore current issues and emerging and future trends in Home Economics and to develop a confident approach to school-based curriculum development. Advanced teaching strategies and current assessment procedures are developed.

Course: ED50, ED54

Prerequisite: PUB312

Credit Points: 12

Contact Hours: 3 per week

■ PUB323 HOME ECONOMICS: SOCIAL FOUNDATIONS

Home economics is concerned with the well-being of individuals and families; to achieve this goal, individuals must have an understanding of development from conception to old age, and a critical awareness of the social processes which influence this development; home economics issues.

Course: ED50

Credit Points: 12

Contact Hours: 4 per week

■ PUB325 SHELTER STUDIES

Critical aspects of shelter as a fulfilment of people's basic needs; design, technology and legislation linked to decisions affecting provision of shelter for the differing needs of individuals and families.

Course: ED50

Credit Points: 12

Contact Hours: 4 per week

■ PUB327 HEALTH ISSUES IN AUSTRALIA

Australians' major health concerns; the multidimensional nature of health; initiatives undertaken to address health problems at individual, community, and national levels; prevention as a pivotal concept in health status.

Courses: ED50, ED51

Credit Points: 12

Contact Hours: 3 per week

■ PUB328 CONTEMPORARY INFLUENCES ON HEALTH STATUS

Concept of contemporary social, economic and political influences on well-being; major, contemporary health concerns resulting from these influences.

Courses: PU49, ED50

Credit Points: 12

Contact Hours: 3 per week

■ PUB329 FOUNDATIONS OF HEALTH STUDIES & HEALTH BEHAVIOUR

The foundations of the discipline of health education, its theoretical framework and concepts of models of health, health education and health promotion.

Course: ED50

Prerequisites: SSB922, PUB327

Co-requisite: HMB305

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB331 SHELTER STUDIES 2

The linking of human physical and psychosocial needs, environmental and technological issues and design aspects to the effective provision of shelter, with emphasis being placed on the development of advanced skills and knowledge; environmental and technological aspects which have implications on shelter design for the well-being of the individual and families; effective design to accommodate changing family structures; legislative updates.

Courses: PU49, ED50

Prerequisites: PUB325 or PUB372

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB334 FOOD FOR HEALTH

Exploration of concepts which impinge on food-related behaviours and develop concomitant cognitive competencies. Students are encouraged to recognise that their own personal pro-active stance in relation to food-related health issues can contribute to better health for all Australians.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB335 OCCUPATIONAL & ENVIRONMENTAL HEALTH

Study of environmental and occupational health issues in their broadest context and their impact on individual health.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB336 WOMEN'S HEALTH

Exploration of the data and health issues related to women's health and critically evaluates health-related policies, systems and practices in terms of their impact on women's health.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB337 HEALTH NEEDS OF SPECIFIC POPULATIONS

The health needs of a range of specific population groups and considers the broad picture of actual differences in health status among population groups.

Course: ED50

Prerequisite: PUB327

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB338 SUBSTANCE USE IN CONTEMPORARY SOCIETY

An introduction to analytical models, statistical evidence and health education and health promotion strategies applicable to substance use and abuse, to familiarise students with the contemporary nature and extent of substance use in Australia and examines models and strategies to address these issues.

Course: ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB349 FAMILIES & HOUSEHOLDS IN AUSTRALIA

Examination of the emphasis of the family in home economics. Perspectives considered include: structural functionalist, symbolic interactional, conflict and feminist, whether the family provides an appropriate orientation for home economics.

Course: ED50

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB353 CONSUMER FOOD

The role of the food industry in relation to lifestyles in modern societies; the scientific principles and operations involved in the preservation and manufacture of

foods; the composition, the ingredients, the labelling and marketing methods of a representative range of commercial foods; current consumer issues such as the safety of food additives, food irradiation, consumer protection, new product development, food regulations and future trends in our food supply.

Course: ED50, SC30

Prerequisites: Any Level 1 Science unit

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB355 FOOD SERVICE: PRINCIPLES AND PRACTICES

The use of relevant management principles, safe and hygienic work practices, effective communication skills, sound nutrition and mastery of techniques in food production and presentation.

Course: ED50

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB356 CLINICAL CLASSIFICATION I

Development of skills in one of the major specialities of health information management: clinical classification of diseases and procedures using the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM). Clinical classification responds to internal and external demands for medical information, for example, in-house research and education, ABS hospital morbidity data collections, and casemix information systems.

Course: PU48

Prerequisite: PUB220

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB357 NUTRITION ISSUES IN AUSTRALIA

A background study into the nutritional issues which are impacting on the quality of Australian lives. These issues are considered in two broad frameworks: (1) the nutritional needs throughout the lifecycle and the environmental factors which impinge on realisation of these needs and (2) the aetiology, incidence, outcomes and management of diet-related disorders.

Course: ED50

Prerequisite: PUB319

Co-requisite: PUB334

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB361 TEXTILES 2

Continuation of PUB321. An understanding of textile consumer issues is developed by a study of relevant commercial enterprises and the implications for the consumer. Creativity is encouraged by students combining skills in pattern development with advanced techniques in constructing textile articles.

Course: ED50

Prerequisite: PUB321

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB365 EVOLUTION OF WESTERN DRESS

Evaluation of western fashionable dress from ancient times to the present; the relationship between costume and the environment; influencing factors: social, aesthetic, political, economic, geographic, spiritual, technological; emphasis on primary sources from the nineteenth and twentieth centuries; teaching strategies and resources.

Courses: ED26, ED50

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB369 TEXTILES: SUPERVISED PROJECT

Students select and complete an indepth study in one or more methods of creating with textiles. The study includes the development of advanced technical skills and an investigation and evaluation of the corresponding commercial production.

Courses: ED50, PU49

Prerequisites: PUB321 or PUB472 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB372 SHELTER STUDIES 1

Housing tenure; advantages and disadvantages of ownership/tenancy; housing finance; housing for special groups; special needs in housing; interior environment; housing heritage.

Course: PU49

Prerequisites: PUB276, SSB961 or equivalent

Credit Points: 12 Contact Hours: 4 per week

■ PUB374 FAMILY STUDIES

Definitions of the family; the family and society; social class and geographical differences in family patterns; influence of changing social conditions; socialisation and child rearing patterns; families in a multicultural society.

Course: PU49

Prerequisites: SSB961, SSB912 or equivalent

Credit Points: 12 Contact Hours: 3 per week

■ PUB381 INTRODUCTION TO APPAREL DESIGN & PRODUCTION

Offers students an insight into the fashion industry. It also offers an opportunity for students to develop expertise in the area of women's fashion design. Students implement the design process through the production of apparel items. Emphasis is placed on production techniques used in cottage industry.

Course: ED50

Prerequisite: PUB361

Credit Points: 12 Contact Hours: 4 per week

■ PUB399 HEALTH INFORMATION MANAGEMENT 2

Continuation of PUB299. There is an emphasis on analysis and improvement of health information management throughout hospitals. The examination of health information services will move outside the medical record department of hospitals to wards, bed allocation and admission offices; accident and emergency departments; outpatient and allied health services and other specialised hospital services such as radiology, pharmacy and pathology. Skills in health data management, forms design and statistical presentation of hospital or health service activities are developed.

Course: PU48

Prerequisites: PUB299 and a 1 week practicum

Credit Points: 12 Contact Hours: 4 per week

■ PUB404 CLINICAL SCIENCE 2

At this stage students are able to follow cases through to observe the short-term effect of therapy and are expected to commence case studies to develop comparative and recording skills. Students should now be adopting the standard medical terminology and abbreviations used in clinical situations.

Course: PU45

Prerequisite: PUB303

Co-requisite: PUB303

Credit Points: 12 Contact Hours: 9 per week

■ PUB405 HUMAN NUTRITION

Human nutrition provides a solid basis of nutrition knowledge upon which studies in nutrition may be built. It examines the sociology of food in providing required nutrients, and gives an indepth explanation, at a biochemical level, of the role of nutrients. At least one semester of biochemistry is assumed.

Courses: PU49, SC30

Prerequisites: LSB305 or LSB308

Credit Points: 12 Contact Hours: 5 per week

■ PUB410 MEDICINE

Following completion of this unit, students should be able to recognise and understand the clinical features, pathogenesis and significance of common conditions affecting the lower limbs, eg. oedema; obesity; motor, sensory and trophic disturbances and their resultant

effects in paralysis, ataxia, deformity and ulceration; intermittent claudication, vascular spasm and cramp are taught so as to emphasise their significance. Medical conditions with manifestations in the feet are given particular attention.

Course: PU45

Prerequisites: LSB470, LSB451

Co-requisite: PUB503

Credit Points: 8

Contact Hours: 3 per week

■ PUB411 ORTHOPAEDICS

Emphasis on orthopaedic surgery; develops a detailed knowledge of general and specific orthopaedic conditions which have an effect on the lower limbs and the surgical treatment of systemic conditions as seen by the podiatrist, ie. diabetes; provides an understanding of the special problems associated with children and specific lower limb conditions with emphasis on the surgical techniques used in their treatment.

Course: PU45

Prerequisite: PUB505

Co-requisite: PUB303

Credit Points: 8

Contact Hours: 3 per week

■ PUB414 HOME ECONOMICS APPLIED CURRICULUM

Issues relating to home economics education; bases for curriculum decision making; nature and structure of home economics; syllabus implementation; innovation; issues that affect home economics.

Course: ED26

Prerequisites: CUB410 or equivalent and curriculum implementation studies at Diploma of Teaching level.

Credit Points: 12

Contact Hours: 3 per week

■ PUB421 PODIATRIC MEDICINE 2

The foundation for study in the role of therapeutics in patient management including short-term and long-term management of conditions. It expands the range of understanding of the wide variety of conditions presented to the podiatrist. On completion, students should have developed an understanding of the biomechanical principles affecting the joints of the foot and the structural and functional consequences presenting in podiatric practice.

Course: PU45

Prerequisite: PUB302

Co-requisite: PUB404

Credit Points: 12

Contact Hours: 6 per week

■ PUB422 PODIATRIC ANAESTHESIOLOGY

Provides a sound understanding of the science of anaesthetics as applicable to the practice of podiatry. Students are required to understand the pharmacology of local anaesthetics and their clinical usage, and be competent in injection techniques, including local infiltration and local nerve block in the lower limbs.

Course: PU45

Prerequisite: PUB421

Co-requisite: PUB410

Credit Points: 8

Contact Hours: 2 per week

■ PUB423 FOOD & NUTRITION

Nutrition is an important factor in the provision of health, and prevention and management of many disease states. This unit provides an overview of concepts fundamental to an appreciation of the role of nutrition in health care. Topics include: the chemical nature, digestion, absorption and assimilation of nutrients; nutrients provided by the five food groups; food selection for a healthy diet; nutrient requirements in particular clinical situations.

Courses: NS40, NS48

Prerequisite: LSB281

Credit Points: 8

Contact Hours: 3 per week

■ PUB431 ECONOMIC EVALUATION OF HEALTH SERVICES

Economic evaluation of health services; the application of cost analysis, cost effectiveness analysis, cost

utility analysis and cost benefit analysis to health programs; problem identification and definition, identifying and valuing costs and benefits, externalities, decision rules and reporting.

Course: PU48

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB440 CLOTHING DESIGN

This unit an opportunity for teachers to study in this area at a greater depth than that available in the pre-service units. It allows for critical evaluation of influences of the fashion industry, pattern making, clothing construction and the teaching strategies and resources available.

Course: ED26

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB441 NUTRITION EDUCATION

Biochemical approaches to nutrition; history and evolution of nutrition; popular nutrition literature; development of a philosophy of nutrition.

Courses: ED26, ED50, PU49,

Credit Points: 12 **Contact Hours:** 3 per week

■ PUB456 CLINICAL CLASSIFICATION 2

Students will learn to abstract and interpret the information recorded in client/patient medical records. Develop an understanding of the clinician's response to various disease processes and how this information presents in the medical record. A significant component of the unit will involve coding from hospital medical records on-site in an acute care setting. Students become proficient in the art of clinical classification using ICD-9-CM.

Course: PU48

Prerequisites: LSB242, LSB361, PUB220, PUB356

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB472 TEXTILE SCIENCE & TECHNOLOGY

Overview of textiles and textile evaluation; fibres; yarns; fabric construction; finishing treatments; colour and its application to textiles; textile care; textile end-use; principles and practice of textile performance evaluation.

Course: PU49 **Prerequisites:** CHB259 or equivalent

Co-requisite: PUB405

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB474 FOOD STUDIES

The behaviour of foods; nature, properties and behaviour of major nutrients in food; interaction between major ingredients in certain foods.

Courses: PU49, ED50

Co-requisite: CHB259

Credit Points: 12 **Contact Hours:** 6 per week

■ PUB478 FOOD SCIENCE & TECHNOLOGY

The role of the food industry in modern society; issues and problems facing consumers and the food industry; food preservation principles; unit processes in the food industry; commercially available food; product development; food technology workshop.

Courses: PU42, PU49

Prerequisites: LSB301, LSB405 or equivalent

Credit Points: 12 **Contact Hours:** 5 per week

■ PUB481 POLLUTION SCIENCE 2

The causes, effects, control measures, standards and legislation relating to water, and water pollution.

Course: PU42 **Prerequisites:** CHB242, PHB263

Credit Points: 12 **Contact Hours:** 5 per week

■ PUB482 OCCUPATIONAL HEALTH

Basic concepts of toxicology and the body's responses to toxic substances; basic disease processes in humans and the various agents in the workplace adversely affecting the health of workers.

Course: PU44

Credit Points: 12

Prerequisite: LSB242

Contact Hours: 5 per week

■ PUB483 ERGONOMICS 1

The structure and function of relevant body systems and the ways in which the work environment and work tasks can impinge on normal functions; occupational biomechanics; biomechanical modelling; anthropometry; manual handling; tool and equipment design; the effects of physical factors such as lighting, temperature and humidity on human performance; ergonomics methodologies.

Course: PU44

Credit Points: 8

Prerequisite: MEB035

Contact Hours: 3 per week

■ PUB485 OCCUPATIONAL HYGIENE 1

The field of occupational hygiene and the theory of occupational hygiene in the management of hazardous substances; the uses and limitations of a range of sampling and analytical equipment in the measurement and assessment of workplace particulates.

Course: PU44

Credit Points: 12

Prerequisite: CHB242

Contact Hours: 4 per week

■ PUB499 HEALTH INFORMATION MANAGEMENT 3

Health information systems outside acute care hospitals; special purpose health record systems, ambulatory health record systems, and those used in health care facilities other than acute care hospitals, systems for the registration and notification of disease and health problems, clinical classification systems other than ICD-9-CM and nomenclatures, which may be used in specialised health settings; concepts and processes of quality assurance in health (e.g. accreditation, criteria audits etc). (Not offered in 1995).

Course: PU48

Credit Points: 12

Prerequisite: PUB399

Contact Hours: 4 per week

■ PUB502 DERMATOLOGY

An appreciation of the many varieties of skin lesions and their particular relevance when found in the lower limbs. The lecture program consists of classification of skin disease, vascular reaction group, vasculitis, ulcers, peripheral vascular disease, tumours, eczema, dermatitis, allergy, immunity, infections, psoriasis, squamous eruptions, nails and hair, skin manifestations of internal disease, pharmacology and general therapeutics. The clinical sessions utilise this information in allowing students the opportunity to see and diagnose many of these conditions.

Course: PU45

Prerequisites: PUB410, PUB421, PUB503

Credit Points: 8

Contact Hours: 3 per week

■ PUB503 PODIATRIC MEDICINE 3

Develops professional understanding of the general and specific effects of medical and surgical conditions on the human foot. Also expands the concept of total case management in terms of the interdisciplinary approach, including physical, mechanical and surgical techniques. Completion of this unit should enable students to consolidate the podiatrist's role in the health care team across the spectrum of practice.

Course: PU45

Co-requisite: PUB504

Credit Points: 8

Prerequisite: PUB421

Contact Hours: 3 per week

■ PUB504 CLINICAL SCIENCE 3

On completion, the student should be able to consolidate skills acquired in operative mechanical, chemical and physical therapy and to demonstrate expertise in the treatment of the diabetic arthritic foot, and related circulatory and neurological disorders. Diagnostic skills are also developed with the wider range of patients

being treated and the specialised study of disciplines such as dermatology and radiology further integrating academic and clinical studies.

Course: PU45 **Prerequisites:** PUB404, PUB421

Co-requisite: PUB304

Credit Points: 8 **Contact Hours:** 12 per week

■ PUB505 PODIATRIC SURGERY

Implementation of podiatric surgical techniques based on strong theoretical knowledge. On completion, students should understand the principles and techniques of minimal incision surgery.

Course: PU45 **Prerequisites:** PUB422, PUB410

Co-requisite: PUB603

Credit Points: 8 **Contact Hours:** 3 per week

■ PUB512 ERGONOMICS 2

Application of industrial and organisation psychology to the industrial environment; examination of key individual, social and organisational factors contributing to health and safety at work; an appreciation of the interface between humans, machines and the environment, information processing and learning, stress, job design, job satisfaction and work schedules.

Course: PU44 **Prerequisites:** PUB483, SSB914

Credit Points: 12 **Contact Hours:** 6 per week

■ PUB513 EPIDEMIOLOGY & DISEASES

Enables students to become familiar with the terminology used in the epidemiology and the study of diseases; includes the conducting of various types of study including the analysis of data in the workplace; topics include: the causes and preventative factors of the most common non-infectious diseases, their incubation periods, modes of infection and transmission of infectious diseases, and the principles and applications of vaccination.

Courses: PU42, PU44, PU48

Credit Points: 12 **Contact Hours:** 4 per week

■ PUB516 OCCUPATIONAL HEALTH & SAFETY PRACTICE 1

Investigation of management principles and practices as they may be applied to resolve occupational health and safety problems; an examination of industrial relations processes and the legal framework within which occupational health and safety is addressed; field studies are used to provide students with a practical insight into the application of the principles to which they have been introduced.

Course: PU44

Prerequisites: MEB035, PHB404, PUB483

Co-requisite: PUB485

Credit Points: 12 **Contact Hours:** 6 per week

■ PUB518 FOOD HYGIENE STUDIES

The various types of food poisoning; food poisoning investigation techniques; laboratory procedures and interpretation of results.

Course: PU42

Prerequisites: LSB431, PUB207, PUB478

Credit Points: 8 **Contact Hours:** 4 per week

■ PUB520 ENVIRONMENTAL HEALTH MANAGEMENT 1

Management of an environmental health unit; legal and professional procedures associated with the duties of environmental health officers.

Course: PU42 **Prerequisites:** PUB207, PUB481

Credit Points: 12 **Contact Hours:** 5 per week

■ PUB528 HEALTH ADMINISTRATION PROJECT

Enables students to do follow-up work of a practical nature in an area of interest to them. Before being ad-

mitted to this unit, students must have completed all the required coursework in the discipline area of the proposed project. Projects may be undertaken in any of the discipline areas covered by the degree, eg. health economics, law, health finance, health information management, health management, statistics, epidemiology, either individually or in small groups. Projects must have prior approval and are closely supervised. Being of a practical nature, projects are undertaken in a health or medical care delivery setting, eg. hospital medical record department; group practice; local authority health department, State health department.

Course: PU48

Credit Points: 12

■ PUB529 HEALTH PLANNING & EVALUATION

The concept and processes of program management; health planning in a program management context; issues relating to community participation in health planning, planning for accountability, planning for future evaluation, as well as the steps in program planning; resources management and health resource inventories; the rudiments of evaluation research applied to health programs. (Not offered in 1995.)

Course: PU48

Credit Points: 12

Contact Hours: 3 per week

■ PUB531 HEALTH CARE ECONOMICS

Application of economic analysis to the health care industry; an examination of the demand for health care, the supply of and market for health care.

Course: PU48

Prerequisite: EPB150

Credit Points: 12

Contact Hours: 3 per week

■ PUB533 INTERNATIONAL HEALTH CARE SYSTEMS

Makes students aware of how different countries have organised their health delivery systems. The comparisons are historical and economic. An analysis is made of the growth of the welfare state in a number of countries, eg. United Kingdom, USA, Sweden, Canada, with particular reference to the organisation and delivery of health services. International organisations working in health are studied. Students are introduced to the distribution of diseases in both the West and the Third World; the distribution of health and material resources; international agencies; aid programs and their roles; functions, effectiveness and coordination problems.

Course: PU48

Credit Points: 12

Contact Hours: 3 per week

■ PUB540 THE HOME ECONOMIST AS A COUNSELLOR

The counselling process; major approaches to counselling; models of helping and the helping relationship; communication skills; the home economist as counsellor; moral, ethical and legal responsibility of the home economist as a helping professional.

Course: PU49

Prerequisites: PUB574, SSB961, or equivalent

Credit Points: 12

Contact Hours: 3 per week

■ PUB552 NUTRITION ISSUES IN AUSTRALIA

Evaluation of nutritional information; psychology of food; methods of assessing nutritional status; nutritional disorders; community, remedial and nutrition education programs.

Courses: ED50, PU49

Prerequisites: PUB319, PUB405, or equivalent

Credit Points: 12

Contact Hours: 4 per week

■ PUB556 FOOD PRESENTATION & PROMOTION

Advanced techniques and complex skills of food pro-

duction and presentation; commercial production and presentation of food; production and presentation of food for photography or display purposes; food demonstrations; special occasion cookery.

Course: PU49 **Prerequisite:** PUB474
Credit Points: 12 **Contact Hours:** 6 per week

■ PUB572 APPAREL DESIGN 1

Factors influencing garment and household goods designs; design development; yarn structure; techniques of fabric construction and decoration; the textile industry.

Course: PU49 **Prerequisites:** PUB276 or equivalent
Credit Points: 12 **Contact Hours:** 4 per week

■ PUB574 HOME ECONOMICS 3

The family as a social system; resources and constraints related to the life cycle; management in the family context; the family in Australia; managing finance.

Course: PU49 **Prerequisites:** PUB272 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB575 HOME ECONOMICS PRACTICUM
Experience in working in industry, commerce or government; placement in a number of organisations for 10 weeks.

Course: PU49
Prerequisites: COB160 or equivalent
Credit Points: 12

■ PUB580 HEALTH ADMINISTRATION FINANCE

Fund/accrual accounting; financial administration in Commonwealth and State Government; financial management in the health industry; financial analysis; planning and budgeting, working capital management in the health industry; health care performance and evaluation.

Course: PU48 **Prerequisites:** AYB105 or AYB110
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB582 APPAREL DESIGN 2

The design and production of a range of apparel suitable for a specific client group for example: corporate wear; department store; large mass market; detailed research of client needs, textile specification and evaluation and costing; develops to an advanced level knowledge, understanding and processes established in PUB572.

Course: PU49 **Prerequisite:** PUB572
Credit Points: 12 **Contact Hours:** 4 per week

■ PUB585 OCCUPATIONAL HYGIENE 2

Continuation of PUB495; concentrates on the application of the principles to which the student has already been introduced; extends the student's ability to recognise, evaluate and suggest the most efficient control strategies for physical and chemical hazards in the working environment; examines the elements of successful monitoring programs in the workplace.

Course: PU44
Prerequisites: CHB411, LSB431, PUB482, PUB485
Credit Points: 12 **Contact Hours:** 6 per week

■ PUB590 PRODUCT DEVELOPMENT & MARKETING

The consumer market; product development; critical path analysis and network planning; idea generation and product evaluation; feasibility study and product cost analysis; quality assurance; the production and marketing of products; career prospects.

Course: PU49 **Prerequisites:** PUB478 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB592 HOME ECONOMICS INDEPENDENT STUDY 1

Self-initiated and self-directed academic study in an interest area consistent with the courses overall aims.

Course: PU49

Credit Points: 12 **Contact Hours:** 1 per week

■ PUB594 HOME ECONOMICS INDEPENDENT STUDY 2

Self-initiated and self-directed academic study in an interest area consistent with the course overall aims.

Course: PU49

Credit Points: 12 **Contact Hours:** 1 per week

■ PUB600 HEALTH MANAGEMENT 1

A problem-solving approach which relates the science of management to decision making and control in health services administration. Management science (operations research) techniques are learned and applied in case studies from the health industry. (Only offered to students in the pre-1994 intake.)

Course: PU48 **Prerequisites:** 16 units in PU48
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB602 SPORTS MEDICINE

The importance of a multidisciplinary approach to the diagnosis, evaluation and treatment of sports injuries. Students study the symptomology of lower limb functional pathologies as related to specific sports and devise treatment programs. An understanding of the principles of human fitness and potential in relation to athletic injuries and expectations forms the foundation for further studies.

Course: PU45 **Prerequisites:** PUB503, PUB410
Co-requisite: PUB411

Credit Points: 8 **Contact Hours:** 3 per week

■ PUB603 CLINICAL SCIENCE 4

Prepares the student for the transition to private practice. Students are introduced to the sports medicine patient in terms of the range of injuries which occur affecting the lower back, hip, knee, ankle and foot. Case presentations are an integral part of clinical learning and sessions conclude with exchange between students and staff over case management.

Course: PU45
Credit Points: 8 **Contact Hours:** 12 per week

■ PUB605 HEALTH MANAGEMENT 2

Involves a problem-solving approach to decision making and strategic management in health services administration. Case studies and projects are used to allow students to apply theory to practical situations. Specific management techniques and current health management issues are explored. (Only offered to students in the pre-1994 intake.)

Course: PU48 **Prerequisite:** PUB600
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB610 PROJECT & PROFESSIONAL MANAGEMENT

This unit explains firstly how a professional practice may be set up and how a small practice can operate as a business enterprise. Methods of budgeting, finance and control are explained. Secondly it develops an interest in podiatry research using scientific methods of investigation and presentation. Students are encouraged to publish these projects as original material in related professional journals.

Course: PU45
Credit Points: 8 **Contact Hours:** 3 per week

■ PUB611 HAZARD ASSESSMENT & MANAGEMENT

Enhances skills in risk management; risk communication; workplace auditing; investigation, analysis and reporting of accidents.

Course: PU44 **Prerequisite:** PHB404
Credit Points: 12 **Contact Hours:** 4 per week

■ PUB612 HEALTH PROMOTION & EDUCATION

The scope and nature of health promotion; use of resources for such activities; planning, conduct and evaluation of health promotion programs; adult learning principles; training needs analysis; training program development and evaluation; specific training methods.
Courses: PU44 PU42 Prerequisite: SSB914
Credit Points: 8 Contact Hours: 3 per week

■ PUB613 OCCUPATIONAL HEALTH & SAFETY PRACTICE 2

Experience working in industry, commerce or government; placement in an organisation one day per week; ethics; professional practice; current issues.
Course: PU44 Prerequisite: PUB516
Credit Points: 8 Contact Hours: 2 per week

■ PUB614 INDUSTRY SPECIALISATION

The hazards associated with particular industries including construction, manufacturing, chemical and mining through field trips and specialist lectures; the various laws and standards that apply to these industries and an investigation of the control strategies applicable to the management of hazards in industry; introduction to the principles of workplace rehabilitation.
Course: PU44 Prerequisite: PUB516
Credit Points: 8 Contact Hours: 4 per week

■ PUB617 OCCUPATIONAL HEALTH & SAFETY PROJECT

Through independent work under the guidance of supervisors, students learn to appreciate the connection between their theoretical studies and practical aspects of environmental health. Practice is gained in research techniques, logical reasoning and presentation of research findings.
Course: PU44
Prerequisites: PUB512, PUB513, PUB585
Credit Points: 12 Contact Hours: 3 per week

■ PUB618 HEALTH COMPUTER SYSTEMS

Principles and applications of electronic data processing in health care settings. Computerised health information systems are analysed from a variety of viewpoints including the objectives of the system, specific methods employed to meet user needs, structure in an overall information system, the technology which makes it operative, the data base, and the various ways information is transferred and used in health facilities.
Course: PU48 Prerequisite: ISB892
Credit Points: 12 Contact Hours: 5 per week

■ PUB619 HEALTH INFORMATION MANAGEMENT 4

The role and function of the health information manager in the management of health care services; the principles and processes of management as applied to health information services; current issues in health information management.
Course: PU48 Prerequisites: PUB499, PUB456
Credit Points: 12 Contact Hours: 4 per week

■ PUB620 ENVIRONMENTAL HEALTH MANAGEMENT 2

Integration of the student's theoretical understanding of physical and biological sciences and application of such to the management of a range of environmental health problems encountered in the professional practice of an environmental health officer.
Course: PU42 Prerequisites: PUB520, PUB481
Co-requisite: PUB481
Credit Points: 12 Contact Hours: 6 per week

■ PUB621 ENVIRONMENTAL HEALTH PRACTICE

Visits to all types of establishments in environmental health management, pollution sciences and food studies for the purpose of practical demonstration, evaluation and professional experience.
Course: PU42 Prerequisites: PUB481, PUB520
Co-requisite: PUB620
Credit Points: 12 Contact Hours: 6 per week

■ PUB622 ENVIRONMENTAL HEALTH PROJECT

Through independent work under the guidance of supervisors, students learn to appreciate the connection between their theoretical studies and practical aspects of environmental health. Practice is gained in research techniques, logical reasoning and presentation of research findings.
Course: PU42 Prerequisites: PUB520, LSB408
Credit Points: 8 Contact Hours: 4 per week

■ PUB631 NUTRITIONAL BIOCHEMISTRY

The digestion, absorption and metabolic assimilation of nutrients; hormonal control of metabolism; the role of drugs; genetic and environmental influences; significant parameters measured in clinical laboratories examined in a variety of health and disease states; diet and exercise for health; starvation; obesity; diabetes mellitus; cardiovascular disease; renal disease; liver disease; alcohol consumption; physiological and traumatic stress.
Course: SC30 Prerequisites: LSB408, PUB405
Credit Points: 12 Contact Hours: 5 per week

■ PUB634 HEALTH SERVICES EVALUATION

A study of process evaluation, program evaluation and evaluation research with applications to the health field; designed for health professionals in both the administration and practice areas. Theory, practice, the utilisation of evaluation results and the administration of evaluation studies are emphasised in this unit. Addresses topics such as quality assurance, utilisation, review and accreditation. (Only offered to students in the pre-1994 intake.)
Course: PU48 Prerequisite: PUB646
Credit Points: 12 Contact Hours: 3 per week

■ PUB646 HEALTH SERVICES PLANNING

The administrator's role in the planning and development of health care facilities and health services; an examination of the reasons for planning, the concepts and principles of planning and the types and categories of planning applied to the health industry. (Only offered to students in the pre-1994 intake.)
Course: PU48 Prerequisites: PUB130, PUB430
Credit Points: 12 Contact Hours: 3 per week

■ PUB651 CASEMIX MANAGEMENT

History and development of casemix classification systems; structure of AN-DRGs; casemix applications in quality improvement, utilisation review, costing, planning and management; casemix and funding health care services; casemix classification systems for acute in-patients; data quality issues; casemix grouping software; current casemix initiatives and applications. (Not offered in 1995.)
Course: PU48
Credit Points: 12 Contact Hours: 3 per week

■ PUB653 PROFESSIONAL EXPERIENCE

Increase knowledge and level of understanding of health information management in health care facilities through direct observation and participation. The managerial role of the health information services with

medical, administrative and allied health professionals; reinforcement of clinical classification skills by coding from medical records. (Not offered in 1995.)

Course: PU48 **Prerequisites:** PUB399, PUB956
Credit Points: 12 **Contact Hours:** 6 per week

■ PUB655 HEALTH POLICY AND PLANNING
How health policy is created; the role of vested interests; the role of the mass media; an appreciation of the difference between policy in use and espoused policy; analysis of health policy using analytical frameworks; health policy impact; policies pertaining to special groups. (Not offered in 1995.)

Course: PU48
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB657 HUMAN RESOURCES IN HEALTH
The development of skills in human resource management in the health care industry. Topics include: human resource needs analysis; human resource planning; supply and demand of health personnel; recruitment, selection and training of health personnel; job descriptions; industrial relations in the health industry; health worker performance and job satisfaction; health teams and multi-skilling; leadership and management in the health industry.

Course: PU48 **Prerequisite:** HRB131
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB659 MANAGEMENT OF HEALTH SERVICES

This unit represents the capstone core unit for both the health administration and health information management majors. This unit will exercise the "manager" in the student and prepare them for middle and senior level management positions. Topics include: SWOT analysis; vision, mission and culture; stakeholder analysis and achieving win-win negotiations; thinking strategically; best practice and benchmarking in health.

Course: PU48
Prerequisites: 16 units in the health administration or HIM major
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB674 BUSINESS ORGANISATIONS

The structure of business organisations; types of organisations; business objectives, strategies and policies; functions within business organisations; the role of unions and the nature of industrial relations in Australia; women's issues.

Course: PU49 **Prerequisites:** PUB272 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB675 HOME ECONOMICS 4

The conceptual, theoretical and philosophical foundations of home economics; societal issues relating to the provision of food, textiles and shelter; a critical examination of social, economic, technological and ethical issues on individual and family wellbeing.

Course: PU49 **Prerequisite:** PUB574
Credit Points: 12 **Contact Hours:** 3 per week

■ PUB695 INDUSTRIAL TRAINING EXPERIENCE

Ten to twelve months placement in paid employment related to the Bachelor of Applied Science (Occupational Health and Safety) under the joint supervision of an industry supervisor and an academic adviser. The academic adviser obtains reports from the student and their work supervisor at regular intervals. The student is required to complete a progressive assessment program. Results are determined on the basis of reports, continuous assessment and the employer's report.

Course: PU44
Prerequisites: Satisfactory completion of the first 2

years (96 credit points) of the Bachelor of Applied Science (Occupational Health & Safety), normally with a GPA of not less than 4.5 overall.

Credit Points: 20

■ PUN600 DISSERTATION

Undertaken by full-time Master of Public Health students following successful completion of coursework. This unit is intended as a practicum, offering experience in investigating and/or solving a public health problem.

Course: PU85 **Credit Points:** 48

■ PUN601 CONTEMPORARY HEALTH POLICIES

An examination of the social, political, geographical and economic factors which have shaped the organisation of health care services at local, state, national and/or international levels; funding and resource management; the level and nature of responsibility for health care and health care maintenance; planning for structural change.

Courses: HL88, IF64, LS85, NS62, NS85
Credit Points: 12 **Contact Hours:** 3 per week

■ PUN602 HEALTH PLANNING, MANAGEMENT & EVALUATION

Application of the theory and principles of planning, management and evaluation to health services; a detailed analysis of health services planning techniques; information requirements and decision making for the strategic management of health services; the principles of financial and personnel management required for the effective development and utilisation of health care; process and program evaluation in health services; the appreciation of evaluation research and cost-effectiveness.

Courses: HL88, LS85, NS85
Credit Points: 12 **Contact Hours:** 3 per week

■ PUN607 DISSERTATION

Undertaken by part-time Master of Public Health students following successful completion of course-work. The unit is intended as a practicum, offering experience in investigating and/or solving a public health problem.

Course: PU85 **Credit Points:** 48

■ PUN608 ECONOMICS & HEALTH

The role of economics in planning and decision making in health care; application of economic analysis to the health care industry; issues related to the demand for health care; the supply of health care and the market for health care.

Courses: HL88, IF64, PU85
Credit Points: 12 **Contact Hours:** 3 per week

■ PUN609 HEALTH CARE FINANCE

The financial management aspects of health care delivery in Australia; sources of finance at federal, state and local government levels; priority setting; budgetary processes; responsibilities for provision of various services.

Courses: HL88, IF64, PU85
Credit Points: 12 **Contact Hours:** 3 per week

■ PUN610 HEALTH SERVICES MANAGEMENT

Evolution and changing status of management in health services; interactions between general managers, doctors and others; power/authority concepts; leadership and leadership styles; principles of motivating people and managing conflict; effective decision making by individuals and groups; theories and methods of effective communication, both verbal and written;

performance assessment and outcome measures in health management.

Courses: HL88, IF64, NS85, PU85

Credit Points: 12 Contact Hours: 3 per week

■ **PUN611 ADVANCED HEALTH PLANNING**

The planning of action programs of prevention, care and cure; students taking this unit will previously have studied the determination of health needs using epidemiological methods. This unit has a bias towards ensuring participation in the planning process by all interests affected by the program.

Course: PU85

Credit Points: 12 Contact Hours: 3 per week

■ **PUN612 ADVANCED HEALTH EVALUATION**

A study of evaluation research with applications to the health fields; theory and practice; evaluation results and the administration of evaluation studies.

Course: IF64, PU85

Credit Points: 12 Contact Hours: 3 per week

■ **PUN613 PUBLIC HEALTH INTERVENTION: PRINCIPLES & PRACTICES**

Prepares students to carry out effective field investigations in preparation for the dissertation. Coursework includes the analysis of the social determinants of public health problems, and theory and practice in health education and health promotion.

Course: IF64, PU85

Prerequisites: PUN604, PUN605, PUN606

Credit Points: 12 Contact Hours: 3 per week

■ **PUN617 ENVIRONMENTAL HEALTH MANAGEMENT I**

Environmental health management as an important component in resolving health threatening hazards in the community. Topics include: history of environmental and community health and the approaches of preventive health including the 'old' and 'new' public health; the concept of environmental health and the reduction of life threatening hazards in the community; the legal system and its approach to environmental legislation and environmental health legislation; a critical review of existing legislation and its effectiveness; the administrative system and political system and the role of government in formulating public health policy and its effect on environmental health decision making; the relevance of the structure and function of the Commonwealth, State and Local Government in Australia for environmental health programs; the professional role of environmental health officers and a detailed analysis of Acts, regulations and policies relevant to environmental health.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN618 ENVIRONMENTAL HEALTH MANAGEMENT 2**

This unit builds on PUB617 and considers other relevant environmental health management issues which are an important component in resolving health threatening hazards in the community. Topics include: management principles; including the functions of planning, leading, controlling and coordinating in the environmental health setting; budgeting formats at all levels of government, including fiscal arrangements for public health policy initiatives; assessment of risk and environmental health policy delivery; modelling processes to calculate the best alternative for policy delivery; survey methodology and data collection and presentation to improve decision making in environmental

health; a review of computer software to enhance decision making and office management systems and record and monitor legislative requirements in environmental health.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN619 ENVIRONMENTAL HEALTH 1**

Considers land as a major component of the environment and as a finite resource which must be properly managed to ensure continued health and well-being for individuals and communities. Examines land as a resource; management strategies and adverse pressures on this component of the environment. Adverse impacts considered include solid and hazardous waste generation and disposal, land contamination and strategies for prevention and management.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN620 ENVIRONMENTAL HEALTH 2**

This unit considers water and atmosphere as finite resources which must be properly managed to ensure continued health and well-being for individuals and communities. It examines water and atmosphere as resources, management strategies and adverse pressures on these components of the environment. Adverse impacts resulting from various forms of pollution and use are considered together with strategies for prevention and management of such issues.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN622 CLOTHING: THE HUMAN CONSTRUCTED ENVIRONMENT**

Clothing has physiological, psychological, and sociological connotations that affect the self image and the social relationships of all people. For those who deviate from the norms, the physically disabled, the chronically ill, the mentally handicapped, the visually impaired, and those with extreme problems of weight and stature, these connotations become more important. In this unit of study the requirements of specific target groups are investigated and students will then be challenged to meet their needs through functional clothing design.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN623 HOME ECONOMICS, THE FAMILY & THE POLITICS OF FEMINISM**

Theories of family and the politics of feminism are investigated and the relationship between family and feminist thought are juxtaposed. Topics include: contextualising the study of feminism and the family in home economics; what is family?; sociology of the family; the family in Australia; history of feminist thought and current feminist thinking; feminism in Australia; critique of feminism; which way feminism?; feminism and the family; feminism and home economics; well being of individuals and families – what does it mean?

Course: ED13, HL88

Credit Points: 12 Contact Hours: 3 per week

■ **PUN624 HOME ECONOMICS FOOD & NUTRITION**

A significant factor influencing food patterns is the changing food market with concomitant political, psychosocial, economic, technical and ethical aspects affecting the supply of food to the consumer. Students are directed to research nutritional practices, and to uncover the factors influencing such practices. This research will then form the basis for, not only develop-

ing strategies for individuals accepting responsibility for their own food-related experiences, but also for examining critically existing nutrition education programs and recommended nutrition goals and guidelines. Topics include: the individual; the food supply; nutritional science; nutrition education.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN625 HOME ECONOMICS PHILOSOPHICAL FOUNDATIONS

An examination of relevant political, social, economic, technological and ethical issues which influence the well-being of individuals and families. Topics include: what is home economics?; societal issues; implications for home economics praxis; developing a personal philosophy of home economics.

Course: ED13, HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN626 HOME ECONOMICS FIELD STUDY

Enables students to develop an area of their own choosing and to explore this in depth. The format and content of the program is negotiated between student and lecturer. However it is intended that the focus of the study would be investigating Home Economics theory and practice within the school and/or community setting. Possible areas of study might include: education issues for home economics; home economics and feminism; family studies; human development; human relationships; food and nutrition; textiles; shelter; consumerism; management; design; environmental issues; technology. Areas available are determined by the expertise and research interests of the staff.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN627 ADVANCED PHARMACOLOGY

Topics include: an in depth study of drugs relevant to podiatric practice; including their actions, indications, contraindications, adverse reactions, drug interactions and dosages; indications and contraindications and adverse effects of the use of antibiotics, sedatives, NSAIDs analgesics, corticosteroids, epinephrine in relevant local anaesthetics; the actions of systemic drugs on; the nervous system, cardiovascular, endocrine and musculo skeletal systems; prescription writing and drug regulations.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN628 CLINICAL PATHOLOGY & DIAGNOSIS

Provides students with advanced clinical management skills commensurate with the Master's Degree level of education: an important practical adjunct to the theoretical concepts of clinical pathology and associated diagnostic techniques; gives the Podiatrist the opportunity to apply acquired knowledge in a supervised clinical environment facilitating a comprehensive approach to the evaluation and treatment of foot pathology in the community; students undertaking the management of patients attending the QUT clinical facility.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN629 GENERAL MEDICINE

Provides an advanced level of knowledge necessary for a holistic medical approach to the management of disease processes. The relationship between pathogenesis and advanced therapeutic treatment is explored; designed to enhance the theoretical and clinical

knowledge gained from the advanced pharmacology and clinical pathology/diagnosis units. Topics include: haematopoietic and lymphoid system; immune system; endocrine system; musculoskeletal system; hereditary and genetic; nervous system; cardiovascular system; gastrointestinal system; the liver, the biliary tract and the pancreas; respiratory system; the renal system.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN630 COMPUTERISED GAIT ANALYSIS

Students have the opportunity to further their study and understanding of human movement and gait analysis; and to enhance their clinical biomechanical assessment of a patient, thus allowing for better evaluation and treatment regimes. This is achieved using computerised video motion assessment and foot force assessment systems. Particular emphasis is directed to providing the student with the opportunity of applying this information to specialised areas of podiatric sports medicine.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN631 PODIATRIC SURGERY

Introduces professionals to the more technical aspects of foot surgery. It deals with pre-operative planning of procedures as well as post-operative complications. By the end of the unit students will gain sufficient knowledge to be able to make informed referrals to those qualified to perform appropriate procedures.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN641 CLINICAL DATA MANAGEMENT

Development of skills in data management systems and techniques used in clinical trials and epidemiological research. Methods of collecting and organising clinical data for research purposes; organisation of clinical trials; protocol design and interpretation; quality control and maintaining the integrity of trials; software applications for clinical data management; presentation skills in data management.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN642 CLASSIFICATION & CASEMIX IN HEALTH

The use of classification systems in health services and their applications; statistical classifications (such as ICD) and nomenclatures (such as SNOMED); specialist classification systems for different health care settings (e.g. hospitals, ambulatory care, general practice); the development, application and use of casemix classification systems, especially AN-DRGs.

Courses: HL88, NS62, NS85

Credit Points: 12 Contact Hours: 3 per week

■ PUN643 HEALTH INFORMATICS

The use of information technology in health services; computers, telecommunications and electronic storage systems (such as optical disk); technical, financial, human resource management and legal issues associated with the use of health informatics; applications for health authorities, hospitals, other health institutions and private practice. Field trips are included.

Course: HL88, NS64, NS85

Credit Points: 12 Contact Hours: 3 per week

■ PUN644 CASE STUDIES IN HEALTH INFORMATION MANAGEMENT

Either individually or in groups students analyse case studies, assess the situation and propose a solution or alternative solutions. The case studies are based on re-

cent or current situations in local health care settings.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

■ PUN692 HEALTH CARE DELIVERY SYSTEMS

The context in which public health operates in Australia; an introduction to the health administration branch of public health; the coordination of human, physical, financial and information resources to solve existing problems, to prevent future problems, and to promote good health.

Courses: IF64, PU85

Credit Points: 12 Contact Hours: 3 per week

■ PUP007 SOCIAL & BEHAVIOURAL EPIDEMIOLOGY

Introduction to the field of social and behavioural epidemiology. Examines the role of epidemiology in identifying health problems as well as seeking measures to control or prevent the occurrence of illness in human populations.

Courses: HL88, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP010 HEALTH IN AUSTRALIAN SOCIETY

Addresses significant issues associated with the multifactorial relationships between health and social, economic, political and lifestyle factors. Examination of the structure of Australian society as it impacts on health; patterns of mortality and morbidity and the nature and extent of health care delivery systems.

Courses: HL88, IF64, PU65, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP012 PROGRAM EVALUATION

An introduction to the role of research and evaluation in a broad range of health education and promotion contexts. The unit focuses on the development of skills in program evaluation, research skills to analyse and interpret current research literature and the development of research proposals.

Course: PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP014 SCHOOL HEALTH EDUCATION

Introduction to the field of school health education. Focuses on the nature, scope and place of school health education in the total school environment; major issues facing schools and educators involved in developing and implementing school health education; structural and organisational factors impacting on program development.

Courses: HL88, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP018 HEALTH PROMOTION STRATEGIES

Examines and analyses the process of selection and implementation of appropriate educational approaches for health education and health promotion programs; a broad range of theories, methods and strategies for planning educational experiences.

Courses: HL88, PU62, PU69, PU85, NS64, NS85

Credit Points: 12 Contact Hours: 3 per week

■ PUP021 CASE STUDIES ON CONTEMPORARY HEALTH ISSUES

Focuses on current issues facing practitioners in health education and promotion. Includes critical analysis of strategies and policies designed to address contemporary health issues and encourages students to become informed and critical practitioners.

Courses: HL88, NS64, NS85, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP022 HEALTH PROMOTION CONCEPTS & POLICY: A CRITICAL ANALYSIS

Essential advanced study for practitioners engaged in the application of health promotion strategies. It acknowledges the importance of knowledge and skills to reduce behavioural risks, however, it emphasises the significant strategies and policies of health promotion including healthy public policy, social view of health, laws and regulations and leadership and advocacy.

Courses: HL88, IF64, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP023 PROGRAM PLANNING IN SCHOOL & COMMUNITY HEALTH

Major components of health education and health promotion – the planning and implementation of intervention strategies and comprehensive programs. Provides a conceptual synthesis of the foundation of health education and promotion and analyses models of program planning and evaluation.

Courses: HL88, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP024 FOUNDATIONS OF HEALTH EDUCATION

Introduction to the theoretical and practical dimensions of health education as a major component of the process of health promotion. This unit introduces knowledge, skills and practices necessary to implement health education strategies.

Courses: HL88, PU69

Credit Points: 12 Contact Hours: 3 per week

■ PUP025 COMMUNITY HEALTH PROMOTION

The field of health education and health promotion specifically focusing on the nature of the community health education; examines the environmental, social and educational elements supporting and encouraging behaviours conducive to health.

Courses: HL88, PU69, NS85

Credit Points: 12 Contact Hours: 3 per week

■ PUP027 INDEPENDENT STUDY

Research work in an area of personal or professional interest to the student in the health sciences. The focus may be one of specific content area or process in health education or health promotion. Involves liaison with academic adviser.

Course: PU69

Credit Points: 12

■ PUP109 NUTRITION

A comprehensive study of the nutritional sciences building on students' backgrounds in physiology, biochemistry and nutrition. Topics include: food composition databases; food commodities; factors affecting food choice; factors affecting access to food; barriers within Australia; public health nutrition; food grouping systems; dietary guidelines and the food needs of various groups in the community.

Course: PU62

Credit Points: 12 Contact Hours: 5 per week

■ PUP110 NUTRITIONAL EPIDEMIOLOGY

Statistics; validity; reliability; assessing nutritional studies; data management; interpretation of results. During the semester students have the opportunity to gather data, statistically analyse and assess the data, draw conclusions and construct a written report of the results. Students also learn to use computers to carry out basic statistical and dietary analyses.

Course: PU62

Credit Points: 12 Contact Hours: 5 per week

■ PUP115 OCCUPATIONAL HEALTH & SAFETY LAW & MANAGEMENT 1

Introduces students to basic concepts in occupational health and safety; develops both an understanding of and skills in not only basic management principles as they apply to this discipline but also in the development and delivery of health and safety training programs. Develops a sound foundation in the principles and practice of health promotion.

Courses: PU65

Credit Points: 12 **Contact Hours:** 3 per week

■ PUP116 ERGONOMICS

The relationship between the worker, the work environment and the workspace. Occupational ill-health and injury arise from a lack of fit between the capabilities of workers and the design of the working environment, the work processes and the physical and mental demands of the task. Insight into ergonomics can assist practitioners to enhance the worker's safety and comfort, improve work efficiency and performance, and optimise work performance. Topics include: basic anatomy and physiology of body systems; occupational biomechanics; psychology.

Courses: HL88, PU65

Credit Points: 12 **Contact Hours:** 3 per week

■ PUP122 PRACTICE IN CLINICAL DIETETICS

Practical experience and seminar presentations relevant to PNP120 conducted in institutions off-campus (40 hours per week for 11 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 24 **Contact Hours:** 11 weeks

■ PUP123 PRACTICE IN COMMUNITY NUTRITION

Students gain experience in the nutrition and health care of individuals and groups in the community through off-campus practice (40 hours per week for 3 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 12 **Contact Hours:** 4 weeks

■ PUP126 CLINICAL DIETETICS 1

The dietetic process; the gathering of information using dietary histories; anthropometry; biochemical indices. It builds on basic studies in nutrition; biochemistry and physiology; integrates medical, biochemical and dietary aspects of inborn errors of metabolism, energy imbalances, cardiovascular disorders and metabolic disorders. As part of the unit students are required to attend various hospitals and other locations to interact with clients and others.

Course: PU62 **Co-requisites:** PUP109, PUP110

Credit Points: 12 **Contact Hours:** 5 per week

■ PUP127 CLINICAL DIETETICS 2

This is a continuation of PUP126. Topics includes: nutritional assessment; the management of disorders of the digestive and immune systems; renal disease; liver disease; paediatric disorders; nutritional support and hypermetabolic conditions. Students are required to undertake various visits to hospitals and other locations to interact with clients and others.

Course: PU62 **Prerequisite:** PUP126

Co-requisite: PUP128

Credit Points: 12 **Contact Hours:** 5 per week

■ PUP128 PRACTICAL DIETETICS

Provides an opportunity to experiment with food commodities and to practise service planning, and food

presentation. Examines the ingredient content of commercial foodstuffs. Examines the role of individual ingredients of foodstuffs in the determination of food structure and organoleptic properties.

Course: PU62

Prerequisite: PUP126

Co-requisite: PUP127

Credit Points: 12 **Contact Hours:** 5 per week

■ PUP129 FOOD SERVICE & DIETETIC MANAGEMENT

An introduction to the principles of management including general management theory; organising functions; leadership; staffing; management of change; marketing the profession. This is applied to food service management in terms of planning and organising food service; menu planning; kitchen design; food delivery systems; computer assistance and quality assurance. Field trips to visit various food services.

Course: PU62

Credit Points: 12 **Contact Hours:** 5 per week

■ PUP132 PRACTICE IN FOOD SERVICE MANAGEMENT

Practical experience and seminar presentations. Conducted in institutions off-campus (40 hours per week for 4 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 12 **Contact Hours:** 3 weeks

■ PUP140 COMMUNICATION THEORY & PRACTICE FOR HEALTH PROFESSIONALS

Provides health professionals with skills in communication. Covers communication between clients and health professionals on a one-to-one basis; communication in small groups; public education on health-related matters; diffusion and adoption of health-related behaviours; the role of information; the use of mass media; and communication within health organisations, i.e., between health educators and promoters and other health professionals.

Courses: HL88, PU62, NS85

Credit Points: 12 **Contact Hours:** 3 per week

■ PUP215 OCCUPATIONAL HEALTH & SAFETY LAW & MANAGEMENT 2

Students develop an understanding of both the legal framework within which the discipline operates and industrial relations concepts and practices in so far as they impinge upon occupational health and safety. Basic statistical techniques are reviewed as an introduction to the study of concepts of epidemiology applicable to an occupational setting.

Courses: HL88, PU65

Credit Points: 12 **Contact Hours:** 3 per week

■ PUP250 OCCUPATIONAL HYGIENE

Lectures, practical work and industrial visits to instruct students so that they may recognise, evaluate and control the physical, biological and chemical environmental factors which can adversely affect the health, safety, comfort and efficiency of workers.

Courses: HL88, PU65

Credit Points: 12 **Contact Hours:** 3 per week

■ PUP301 SAFETY TECHNOLOGY & PRACTICE 2

Risk analysis; occupational health and safety audits; hazard detection and analysis; control strategies; use and limitations of personal protective equipment; safety audits; fire and explosion prevention; safe storage of chemicals; ventilation systems – design and operation; reporting systems and methods.

Courses: HL88, PU65
Credit Points: 12 **Contact Hours:** 3 per week

■ **PUP415 OCCUPATIONAL HEALTH**

Exploration of chemical hazards in the working environment, epidemiological principles and practice, and identification of special risk groups in the workforce. Topics include: the pathological bases of disease in humans; chronic occupational diseases; occupational skin conditions; respiratory diseases; biological hazards in the work environment (bacteria, parasites, viruses, rickettsia and fungi); chemical and physical stresses and their physiological responses; physiological monitoring – principles and practice; special risk groups; epidemiological principles and practice.

Courses: HL88, PU65
Credit Points: 12 **Contact Hours:** 3 per week

■ **PUP430 HOME ECONOMICS CURRICULUM STUDIES 1**

The bases for making decisions about home economics curriculum design and implementation are explored in order for participants to appreciate the complexity of this process and the necessity to clarify their own philosophical base for teaching in the area. The skills appropriate for preparing and implementing sequenced units of work are developed.

Course: ED37
Credit Points: 12 **Contact Hours:** 3 per week

■ **PUP431 HOME ECONOMICS CURRICULUM STUDIES 2**

Development of further skills in writing programs of work with an emphasis on advanced teaching/learning strategies, assessment and evaluation and the processes of accreditation and certification concomitant with BOSSSS requirements; current developments in education and implications for Home Economics curriculum; feasible teaching/learning approaches congruent with the needs of specific groups are developed to achieve more equitable education outcomes for all students.

Course: ED37 **Prerequisite:** PUP420
Credit Points: 12 **Contact Hours:** 3 per week

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB326 ACCOUNTING/BUSINESS MANAGEMENT CURRICULUM STUDIES 2**

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB325
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB327 OFFICE COMMUNICATIONS TECHNOLOGY CURRICULUM STUDIES 1**

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54

Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB328 OFFICE COMMUNICATIONS TECHNOLOGY CURRICULUM STUDIES 2**

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB327
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB329 ECONOMICS CURRICULUM STUDIES 1**

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB330 ECONOMICS CURRICULUM STUDIES 2**

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB329
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB331 GEOGRAPHY CURRICULUM STUDIES 1**

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB332 GEOGRAPHY CURRICULUM STUDIES 2**

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB331
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB333 HISTORY CURRICULUM STUDIES 1**

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ **SBB334 HISTORY CURRICULUM STUDIES 2**

Curriculum development within the context of con-

porary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB333
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB335 LEGAL STUDIES CURRICULUM STUDIES 1

The nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB336 LEGAL STUDIES CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB335
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB337 SOCIAL SCIENCE CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Courses: ED50, ED54
Prerequisites: Normally the completion of 48 credit points in each relevant discipline area.
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB338 SOCIAL SCIENCE CURRICULUM STUDIES 2

Curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Courses: ED50, ED54 **Prerequisite:** SBB337
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB339 CURRICULUM IN SOCIAL EDUCATION

Builds on SBB340 to develop a coherent and balanced understanding of the nature and role of Social Education, the Queensland Primary Schools Social Studies Syllabus and P-10 Social Education Framework and introduces other national and international syllabi and programs. Investigates some of the more recent significant initiatives in Social Education, such as Aboriginal and Torres Strait Island Education, Environmental Education and Global Education. Students design an innovative curriculum program for the classroom and clarify their own philosophy and degree of commitment to Social Education teaching.

Course: ED51 **Prerequisite:** SBB340
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB340 TEACHING SOCIAL EDUCATION

Develops an introductory understanding of the nature

and role of Social Education and Queensland Primary Schools Social Studies Syllabus and Guidelines, Workbooks, and the P-10 Social Education Framework. Investigates the various learning styles in the classroom and appropriate teaching strategies to cater for these and especially by processes for individualising instruction via inquiry learning.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB341 DIRECTIONS IN SOCIAL EDUCATION

Builds on SBB339 and SBB340 and analyses the contribution to social education in the classroom of areas, themes and topics, such as, teaching for a better world, environmental education, peace and justice, effective citizenship, political literacy, human rights, development education, gender and equity, global education and futures education.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB342 SOCIAL & ENVIRONMENTAL FOUNDATIONS

Explores from an interdisciplinary perspective a number of thematic questions about teaching: the historical development of social and environmental foundations in the study of society; the current socio-cultural context of social and environmental education; culture and beliefs as an influence on social and environmental activity; the quality of natural and social systems in the world; resources: conservation and development; place and space, continuity and change, key skills and competencies, critical and creative thinking, perceptions, attitudes and values in social and environmental studies.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB343 THE AUSTRALIAN LEGACY

Examination of those forces which have shaped contemporary Australia. Through a consideration of this historical legacy a better understanding of those social, economic and constitutional developments which are currently taking place in Australia can be achieved.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB344 CONSUMER EDUCATION IN PRIMARY SCHOOLS

This unit provides opportunities for Primary School teachers to gain an awareness of the role and functions of consumers in the Australian economy, and the inter-relationship between consumers, business and the government. It discusses consumer protection laws and the need for consumer protection. An examination of various teaching strategies and teaching resources and assists teachers to plan Consumer Education teaching programs for implementation in primary schools.

Course: ED51
Credit Points: 12 **Contact Hours:** 3 per week

■ SBB345 AUSTRALIA, ASIA AND THE PACIFIC – A FUTURES APPROACH

An introduction to the study of futures is attempted through an analysis of principal methods and contemporary eminent contributors. Methods and models are applied to the development of future scenarios and contemporary issues relevant to the region, eg. population and migration, political institutions and systems, resource allocation and utilisation, sustainable development, environmental issues and structural change. Using understandings from the above, teachings methods and techniques are developed for the P-10 Social Education Curriculum.

Course: ED51
Credit Points: 12 Contact Hours: 3 per week

■ **SBB346 ENVIRONMENTAL EDUCATION**

This unit is designed to assist the beginning teacher to implement the Queensland Department of Education's environmental policy in primary schools. The major goal is to develop expertise in the design and delivery of class programs and activities.

Course: ED51
Credit Points: 12 Contact Hours: 3 per week

■ **SBB347 ORGANISATION AND ADMINISTRATION OF ADULT AND WORKPLACE EDUCATION**

Explores and analyses organisational structures and administrative practices found to be successful in adult and workplace education settings. Special attention is given to the impact of organisational form and function, financial provision, and organisational policy on servicing the needs of clients. The effect of national and international policies and current legislative requirements on organisational and administrative designs and processes are examined closely.

Course: ED54
Credit Points: 12 Contact Hours: 3 per week

■ **SBB348 IMPLICATIONS OF THE NATIONAL TRAINING REFORM AGENDA**

The National Standards and competency based training; occupational health and safety; access and equity in workplace and community settings; principles and practices of recognising prior learning.

Course: ED54
Credit Points: 12 Contact Hours: 3 per week

■ **SBB410 CONSUMER EDUCATION**

Preparation of teachers to teach consumer education at various school levels either as a subject in its own right or as aspects of consumer education within other disciplines. Topics include: consumer education in the school curriculum; content in consumer education; teaching consumer education; curriculum development and innovation.

Courses: ED26, ED69, NS48
Credit Points: 12 Contact Hours: 3 per week

■ **SBB411 SOCIAL EDUCATION CURRICULUM DEVELOPMENT**

Designed for teachers wanting to specialise in curriculum planning in primary social studies, secondary economics, history, geography or social science, or TAFE liberal studies; explores recent curriculum movements in social education and relevant curriculum development projects; advanced skills for planning a teaching subject and a work program.

Courses: ED26, NS48
Credit Points: 12 Contact Hours: 3 per week

■ **SBB412 SOCIAL EDUCATION IN THE CURRICULUM**

Provides opportunities for teachers of social education at all levels to investigate key issues and debates about social education and to refine their own purpose as social educators; focuses on global challenges to social educators, the debate over the purposes and structure of social education, the place of critical thinking in the curriculum and the implications of the current P-10 initiative in Queensland.

Course: ED26
Credit Points: 12 Contact Hours: 3 per week

■ **SBB413 LEGAL STUDIES APPLIED CURRICULUM**

For secondary teachers of legal studies (or intending teachers) who have no formal curriculum training in

legal studies. The nature of legal studies within the school curriculum; current teaching strategies; the socio-critical approach; program planning and applications; curriculum innovation and development.

Course: ED26
Credit Points: 12 Contact Hours: 3 per week

■ **SBB440 ENVIRONMENTAL EDUCATION**

Valuable for all educators concerned with communicating environmental knowledge, concepts, skills, attitudes and values in formal and informal learning situations. Participants are encouraged to pursue the objectives of environmental education within their own subject specialisations.

Courses: ED26, ED54, NS48
Credit Points: 12 Contact Hours: 3 per week

■ **SBN603 CRITICAL APPROACHES IN SOCIAL EDUCATION**

The most exciting initiatives in social education over the past two decades have reflected visions of a world that is more peaceful, just and ecologically sustainable. These initiatives have been in areas including Development Education, Human Rights Education, Peace Education, Futures Studies and Global Education/World Studies. In this unit, students initially explore social theory and theories of knowledge to develop a basis for such initiatives; investigate and evaluate policy formulation, curriculum development, materials production and pedagogical practice in terms of their critical approaches; evaluate the applicability of these initiatives and approaches to current curricular offerings in secondary discipline areas such as History, Geography and Economics, primary Social Studies, integrated social science subjects, and other areas of the school curriculum.

Courses: ED13 Credit Points: 12

■ **SBN604 ENVIRONMENTAL EDUCATION & INTERPRETATION**

Provides opportunities for students to investigate approaches to social education which are based on significant disciplines within the field – for example, history, geography and economics. There is scope for students to focus their work in this unit on one selected disciplinary area. Studies focus on recent epistemological developments within the selected discipline(s), and on pedagogical debates about the nature and value of disciplinary approaches to social education. Students analyse the ways those debates are reflected in policy formulation and curriculum practice in schools.

Courses: ED13 Credit Points: 12

■ **SBN605 DISCIPLINARY APPROACHES IN SOCIAL EDUCATION**

Provides teachers and interpreters with the theoretical and practical knowledge and skills to take a leadership role in the fields of environmental education and interpretation. Students examine concepts of society and environment, the impact these have on teaching/learning approaches, the design and evaluation of environmental and interpretive learning experiences, the use of museums, exhibits and environmental centres as learning resources as well as teaching/interpreting controversial environmental issues and sites.

Courses: ED13 Prerequisites: SBN603
Credit Points: 12

■ **SBN606 ISSUES IN ENVIRONMENT EDUCATION AND INTERPRETATION**

The development of research skills in students and providing them with the opportunity to critically explore issues in environmental education and make interpretations of personal professional relevance. Students

undertake reading and research in an area of their choice and produce their findings in a seminar. In these seminars students critically evaluate current literature, controversial issues and debates in their area of study as well as present their findings in the form of a research report.

Courses: ED13

Credit Points: 12

■ SBN607 ADVANCED METHODS IN OFFICE COMMUNICATIONS TECHNOLOGY EDUCATION

The exploration of the major issues related to curriculum and teaching due to environmental changes; and confront the office communications technology educator/trainer with the need to develop new knowledge and understandings. These include: advanced teaching methods, and in particular a knowledge and understanding of research design and procedures, in order to develop the necessary research skills to meet these opportunities and challenges and to guide best practice in the field.

Courses: ED13, ED11

Credit Points: 12

■ SBN608 ADVANCED METHODS FOR TRAINING IN EDUCATION AND INDUSTRY

Provides an opportunity to understand issues and trends impacting on human resource development, and in particular training and consulting. This unit is designed for educators and trainers employed in a human resource development and training role within business and industry. It incorporates foundations of training; advanced training methods; human resource management of the training and development function; and elements of consulting as applied to business education.

Courses: ED13, ED11

Prerequisites: CUN605

Credit Points: 12

■ SBN609 ADVANCED METHODS IN ACCOUNTING AND BUSINESS MANAGEMENT EDUCATION

An opportunity for accounting and business principles, organisation and management educators to bring themselves up to date with the rapid changes occurring in the business world as a result of social, environmental, political and economic pressures. Students are provided an opportunity to explore changes as they relate to business education in order to adapt or develop curriculum and refine their teaching strategies. The focus of the unit is on the building of a strong research base in order that students are able to provide leading edge programs to their students using contemporary teaching methods and technology.

Courses: ED13, ED11

Credit Points: 12

■ SBN610 TRENDS AND CRITICAL ISSUES IN BUSINESS EDUCATION AND TRAINING

Identification, analysis, and discussion of recent trends and critical issues in business education, with particular emphasis on their impact on the field of business education and training.

Courses: ED13, ED11

Credit Points: 12

■ SBP401 ACCOUNTING CURRICULUM STUDIES 1

The nature of Accounting/Business Management education and its role and contribution as a medium for education; introduction to the relevant syllabuses and curriculum documents; lesson and curriculum planning activities; teaching strategies designed to promote a range of learning experiences in the Accounting/Business Education areas.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ SBP402 ACCOUNTING CURRICULUM STUDIES 2

Consideration and practical application of curricular and teaching principles in the Accounting/Business Management area, emphasis on the use of computers; development of work programs, assessment programs and teaching packages in Accounting/Business Management areas. Establishment of principles which are used to guide school experience during teaching practice and also as a beginning teacher; contemporary issues and emerging trends in Accounting/Business Management education curriculum development.

Course: ED37

Prerequisite: SBP401

Credit Points: 12

Contact Hours: 3 per week

■ SBP403 ECONOMICS CURRICULUM STUDIES 1

The nature of Economics and its role in the general curriculum; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning applied to Economics; teaching strategies and resources designed to motivate students and promote a range of interactive learning experiences.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ SBP404 ECONOMICS CURRICULUM STUDIES 2

Continuation of SBP403. Curriculum development within the context of contemporary policies, frameworks and agencies; advanced teaching strategies and the use of computers in teaching Economics; unit development; assessment and evaluation in Economics; issues and directions in curriculum development.

Course: ED37

Prerequisite: SBP403

Credit Points: 12

Contact Hours: 3 per week

■ SBP405 GEOGRAPHY CURRICULUM STUDIES 1

The interpretation of Geography syllabi in Queensland; the nature and role of Geography in general education; lesson and unit planning; teaching and learning approaches designed to promote different classroom activities and cater for different students needs.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ SBP406 GEOGRAPHY CURRICULUM STUDIES 2

Continuation of SBP405. Examination of the broader issues of Geographical education and the roles of the Geography teachers in the community and the profession.

Course: ED37

Prerequisite: SBP405

Credit Points: 12

Contact Hours: 3 per week

■ SBP407 HISTORY CURRICULUM STUDIES 1

Development of a rationale for inquiry-based curricula in History for secondary schools, application of inquiry-based principles to curriculum development at levels from school programs to individual lessons.

Course: ED37

Credit Points: 12

Contact Hours: 3 per week

■ SBP408 HISTORY CURRICULUM STUDIES 2

Continuation of SBP407. Assessment of principles and practices; evaluation of the potential for History to contribute to emerging fields of social education, including global education and development education.

Course: ED37

Prerequisite: SBP407

Credit Points: 12

Contact Hours: 3 per week

■ SBP409 LEGAL STUDIES CURRICULUM STUDIES 1

Legal Studies in the school curriculum; socially-critical approach to the teaching of Legal Studies; overview of the Legal Studies course in Queensland; lesson and curriculum unit planning activities; basic teaching strategies to promote a range of learning experience in Legal Studies; developing basic teaching skills related to the first teaching practice session.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ SBP410 LEGAL STUDIES CURRICULUM STUDIES 2

Continuation of SBP409. Curriculum development within the context of contemporary principles; advanced strategies to further promote a range of learning experiences; assessment and evaluation techniques; assessment programs and teaching packages in Legal Studies; issues and directions in curriculum development.

Course: ED37

Prerequisite: SBP409

Credit Points: 12 Contact Hours: 3 per week

■ SBP411 OFFICE COMMUNICATIONS TECHNOLOGY CURRICULUM STUDIES 1

The nature of office communications technology, its role in the general curriculum; introduction to relevant syllabuses and curriculum documents; basic teaching strategies (including microteaching), and resources designed to motivate students and promote a range of participative learning experiences.

Course: ED37

Credit Points: 12 Contact Hours: 3 per week

■ SBP412 OFFICE COMMUNICATIONS TECHNOLOGY CURRICULUM STUDIES 2

Continuation of SBP411. Curriculum development within the context of contemporary policies; advanced teaching strategies; unit development; general principles of measurement, assessment and evaluation; issues and directions in curriculum development which are pertinent to office communications technology; opportunities to assist students reflect on their own professional development, as they prepare for teaching career.

Course: ED37

Prerequisite: SBP411

Credit Points: 12 Contact Hours: 3 per week

■ SBP500 CURRICULUM ISSUES IN ENVIRONMENTAL EDUCATION 1

The nature of Environmental Education, environmental ethics; theoretical and practical appreciation of the issues and problems facing Environmental Education curriculum planners.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

■ SBP501 CURRICULUM ISSUES IN ENVIRONMENTAL EDUCATION 2

A theoretical appreciation of, and practical exposure to, the design of environmental teaching experiences in formal and non-formal settings within subject areas; builds upon SBP500.

Course: ED22

Prerequisite: SBP500

Credit Points: 12 Contact Hours: 3 per week

■ SBP502 ETHICS & ECONOMICS IN ENVIRONMENTAL EDUCATION

Development of an understanding of the nature of environmental economics and different philosophies, ideologies and cultural views towards the environment; development of teaching strategies and resources for teaching environmental economics and ethics.

Courses: ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP503 NATURAL ENVIRONMENTAL EDUCATION ISSUES

Relationship between human beings and their natural environment; historical development of environmental ethics; studies of current human impacts on vegetation, animal life, soils, waters, geomorphological processes and climate and implications of these for current notions of sustainability.

Courses: ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP504 PRACTICAL & FIELDWORK IN ENVIRONMENTAL EDUCATION

Development of a range of practical and technological skills and a variety of field-based experiences to enable students to reflect on and refine their attitudes and perceptions about Environmental Education. Studies include rural and urban field activities.

Courses: ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP505 SOCIAL ENVIRONMENTAL EDUCATION ISSUES

Development of an understanding of people's responses to their urban environment; opportunities for decision-making about the effective and sustainable use of urban environments; strategies to promote effective practices in the urban environment.

Courses: ED22, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP506 CURRICULUM ISSUES IN BUSINESS EDUCATION

The nature and scope of Business Education; Business Education curricular developments; projections and implications of social economic and demographic changes for Business Education; technology in Business Education; catering for special needs students in business; integrating business into the lower school curriculum; linkage of business and industry with education; innovation in the Business Education area.

Courses: ED22, ED69

Credit Points: 12 Contact Hours: 3 per week

■ SBP507 BUSINESS ORGANISATION & MANAGEMENT EDUCATION 1

Development of the business organisation and management curriculum; comparison with curricula in other states; rationale; nature and aims of business organisation and management; learning experiences appropriate to business organisation and management; examination of curriculum content in the area of business organisation and management.

Courses: ED22, ED69, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP508 BUSINESS ORGANISATION & MANAGEMENT EDUCATION 2

Learning experiences for business organisation and management; resources for teaching business organisation and management; technology in business organisation and management; development of extension studies; language education in business organisation and management; values and educational equity in business organisation and management; assessment and evaluation in business management.

Courses: ED22, ED69, ED26

Credit Points: 12 Contact Hours: 3 per week

■ SBP509 ISSUES IN LEGAL EDUCATION

Nature and scope of legal education; development of legal education curriculum in Australia; comparisons with overseas programs; nature and scope of legal studies in Queensland; development of relevant teaching

strategies within a socially-critical framework; optional studies for legal studies.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

■ SBP510 ISSUES IN OFFICE COMMUNICATION TECHNOLOGY EDUCATION

Role of office communication technology in a changing social world; impact of office communication technology on the teaching-learning process; implementing office communication technology education in primary and lower secondary curriculum; values and educational equity in office communication technology education; applications of office communication technology in teaching and learning; assessment and evaluation in office communication technology education.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

■ SBP511 ISSUES IN ACCOUNTING EDUCATION

Curriculum development in Accounting; use of computers in teaching and learning Accounting; integration of language education into the Accounting curriculum; critical examination of teaching strategies; assessment and evaluation in Accounting; other issues.

Courses: ED22, ED69

Credit Points: 12 Contact Hours: 3 per week

■ SBP517 FINANCIAL MANAGEMENT IN EDUCATION SETTINGS

The financial aspect of managing an educational setting; various financial management control problems; the basic accounting principles and skills used in the recording and management of school financial transactions; guidelines for the efficient and effective use of limited school financial resources.

Course: ED23, ED26

Credit Points: 12

■ SCB001 LEARNING AT UNIVERSITY

Aims to develop students' awareness and use of learning processes necessary for quality learning at university. It encourages a more meaningful approach to learning through the development of active learning strategies effective in scientific study. The content is closely allied to other first year units. Classes have an interactive format which require active student involvement and participation.

Course: SC30

Credit Points: 2 Contact Hours: 1 per week

■ SCB100 COOPERATIVE EDUCATION

Ten to 12 months placement in paid employment related to their course, in a commercial environment under the joint supervision of an industry supervisor and an academic adviser. An academic adviser obtains reports from the student and their work supervisor at regular intervals. The student is required to submit a written report on the conclusion of their placement. Results are determined on the basis of these reports and the employer's evaluation of the student's performance and development.

Courses: CH32, MA34, SC30

Prerequisites: Completion of 4 semesters of a standard full-time degree-level course, normally with a GPA of not less than 4.5 overall.

■ SCB202 SCIENCE, TECHNOLOGY & SOCIETY

The origins of modern science and technology in a social and historical context leading to the study of their role and impact in contemporary society; includes case studies of the development of particular concepts, issues and science and technology based industries.

Topics include: the study of the nature of science and technology; the sociological functioning of the scientific enterprise – its norms and values; the nature of scientific knowledge – objectivity and epistemological issues; the future of science and technology – policy and influences.

Course: ED50

Credit Points: 12 Contact Hours: 4 per week

■ SCB222 EXPLORATION OF THE UNIVERSE

Introduction to optical observational astronomy; instrumentation; celestial sphere and astronomical coordinates, observations of constellations, stars, planets, clusters and other interesting celestial objects. Theory: physical geology of the planets and formation of the solar system, gravitation, optics of telescopes, spectra and their measurement, phenomena of astronomical origin, brief introduction to stars and galaxies. Practical exercises and field trips.

Courses: ED50, SC30

Credit Points: 12 Contact Hours: 5 per week

■ SCB246 ENGINEERING PHYSICS & CHEMISTRY

The physics of heat and properties of matter; including heat, energy transfer, heat engines, thermodynamics, entropy and order. The chemistry of materials including such topics as PH control; polymers and composites and corrosion and its prevention.

Note: Students must pass both Physics and Chemistry modules to obtain credit in this unit.

Course: CE42

Prerequisites: CHB002 or equivalent

Credit Points: 8 Contact Hours: 3 per week

■ SCB510 INTRODUCTION TO QUALITY MANAGEMENT

Management: concepts, systems, costs and total quality management. Improvement: techniques and procedures.

Courses: SC30, MA34

Prerequisites: MAB237 or MAB347 and successful completion of at least 192 credit points.

Credit Points: 12 Contact Hours: 4 per week

■ SSB000 AUSTRALIAN SOCIETY: INTRODUCTION TO SOCIOLOGY

An introduction to sociology; basic sociological concepts and theories are introduced and applied in an analysis of the key institutions and structures in Australian society. Students are exposed to a number of important debates concerning the nature of, and future prospects for, Australian society.

Courses: PU49, SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB001 HUMAN DEVELOPMENT 1

Theories of human development; theories of child development; life-events, transitions and stresses of childhood; values clarification regarding children; disturbances in children; applying developmental theory to service provision for children; cross-cultural and Aboriginal child development; moral development; gender development; child abuse; play and creativity in children; bonding and attachment in early childhood; historical development of childhood; family life cycle; biological bases of child development; the impact of political oppression.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB002 STUDIES IN HUMAN RIGHTS 1

Historically, social science enquiry has sustained a particular interest in both explaining and changing human

situations characterised by deprivation, exploitation, oppression, persecution, disadvantage and disempowerment. This subject, the first of three dealing with the study of human rights, explores such situations from a human rights perspective. It examines the idea of individual and collective human rights and assesses selected international and national situations in terms of civil, political, economic, social and cultural rights.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB003 INTRODUCTION TO PSYCHOLOGY

Using an inductive learning approach, this unit examines ways of conceptualising and understanding behaviour focusing on social perception; learning theories and paradigms; the nature of emotions and defensiveness; the social psychology of attitudes/values, self concept, roles, gender, power, groups; models of verbal and non-verbal communication; stress.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB004 SOCIAL INEQUALITY IN AUSTRALIA

Theories of class and stratification; patterns of social inequality in Australia: class, gender, race and ethnicity; inequality in social life in: education; work; wealth and income; welfare; housing; health; the law; tackling inequality: future options.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB005 HUMAN DEVELOPMENT 2

Theories of adolescence; transitions and events in adolescence; adult life and transitions; theories of adulthood; human empowerment; mid-life issues; renewal in mid-life; models of ageing; aged care issues; death.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB006 STUDIES IN HUMAN RIGHTS 2

Examines social differentiation; inquires into situations of disadvantage and disempowerment; applies a human rights perspective to discrimination on the grounds of gender, race, religion, linguistic heritage and age; analyses the human rights of selected vulnerable individuals and groups (children, young people, juvenile offenders, prisoners, refugees and persons with psychiatric, physical or intellectual disability); evaluates the adequacy of legal, administrative and advocacy arrangements designed to protect and promote fundamental human rights and freedoms.

Courses: HU20, SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB007 INTERPERSONAL PROCESSES & SKILLS

Examines complex communication skills and understandings; communication as a change process and as narrative; awareness and skills with regard to social style, assertion, confrontation and other influencing skills; conflict; stress and burnout; gender and cross cultural issues in communication; interviewing skills.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB008 COUNSELLING THEORY & PRACTICE 1

Analyses and develops skills associated with the counselling process and helping relationship; theoretical bases of major counselling approaches; counselling skills of major approaches; "re-authoring" and

deconstructionist perspectives; ethical, gender and cultural issues in counselling; counselling applied in particular situations; group counselling; change processes in counselling; sociological analysis of the role and function of counselling.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB009 THE AUSTRALIAN WELFARE STATE

The origins and contemporary nature of the Australian welfare state; historical data on the antecedents to and stages of welfare state development; major debates and controversies; an overview of the structural arrangements of the Australian welfare state.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB010 PROFESSIONAL RESOURCES 1

Develops two key themes: 'worker as a resource' introduces students to frameworks for practice; human service worker roles and interventions; notions of need and assessment; 'government and non-government services as resources' introduces students to the legislative base, referral and appeal mechanisms of government and non-government services.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB011 CHILD & FAMILY SERVICES 1

The history of child and family services in Australia; an overview of the major service agencies; legislation; causes of family breakdown; family assessment process and models; the needs and rights of families; professional ethics and standards.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB012 DISABILITY SERVICES 1

History and attitudes to disability; impact of disability upon individuals and families; reviews principles and theoretical frameworks: normalisation, social role valorisation, etc. underpinning services. Planning around individuals; personal futures planning.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB013 CORRECTIVE SERVICES 1

The criminal justice system; its relationship to the offender; social control and social order; the impact of incarceration on offenders, their families and wider community; women and aboriginals in the criminal justice system; victims of crime.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB014 AGED SERVICES 1

Physiological, psychological, social and cultural aspects of ageing; theories of ageing; ageism; an introduction to ageing research; quality of life issues; common transition and ageing; communication with the aged.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB015 MULTICULTURAL SERVICES 1

Orientation to the context, options and difficulties associated with human service programs for multicultural Australia; introduction to the policies, concepts and issues surrounding multicultural services; immigration and resettlement experiences.

Course: SS07

Credit Points: 12 **Contact Hours:** 3 per week

■ SSB016 YOUTH SERVICES 1

The development and character of youth services in Australia; outline of a framework for reflective

youthwork practice; youth services relating to labour market housing, juvenile justice, education, health and young people in the context of families; contemporary practice and policy issues identified through field enquiry and examination of relevant literature.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB017 GROUP WORK

Types of groups and group experiences; the importance and uniqueness of group medium; understanding behaviour in the group context; theories and models of group development; leader and member behaviours; planning, implementing and evaluating group methods; establishing groups and planning group approaches; the group as a therapeutic community; evaluating group work; ethical issues. Includes an intensive group experience in either a camp, weekend residential or two single-day programs.

Course: SS07

Prerequisite: SSB007

Credit Points: 12 Contact Hours: 3 per week

■ SSB019 PROFESSIONAL RESOURCES 2

Integration of welfare interviewing and referral skills with the knowledge of service networks through a series of interview role plays; introduction to statistics (from electronic and print resources) in service planning and submission writing.

Course: SS07

Prerequisite: SSB010

Credit Points: 12 Contact Hours: 3 per week

■ SSB020 CHILD & FAMILY SERVICES 2

An overview of the frameworks, assessments and intervention skills necessary for human service work with children in the following contexts: child protection, alternative care, domestic violence, divorce, juvenile justice and chemical dependency.

Course: SS07

Prerequisite: SSB011

Credit Points: 12 Contact Hours: 3 per week

■ SSB021 DISABILITY SERVICES 2

Major life domains of home, work, education, leisure, relationships as they relate to people with a disability. Contemporary service responses to these life domains. Impact of specific disabling conditions: intellectual, physical, sensory and psychiatric.

Course: SS07

Prerequisite: SSB012

Credit Points: 12 Contact Hours: 3 per week

■ SSB022 CORRECTIVE SERVICES 2

Criminological theory and research; correctional policy and practice; empirical data on criminality; major theoretical paradigms of criminality; social location and extent of crime; the costs of crime; individual and community attitudes towards crime and criminals.

Course: SS07

Prerequisite: SSB013

Credit Points: 12 Contact Hours: 3 per week

■ SSB023 AGED SERVICES 2

Services available to the aged within the community and institutions; policy issues and assessment procedures; special interest groups; ethnic aged, Aboriginal and Torres Strait Islander aged, rural aged, aged carers.

Course: SS07

Prerequisite: SSB014

Credit Points: 12 Contact Hours: 3 per week

■ SSB024 MULTICULTURAL SERVICES 2

The characteristics and circumstances of Australia's ethnic minorities and their implications in the use of welfare intervention techniques; needs and issues of specific interest groups; promotes cultural sensitivity by exploring the social mores of Australia's ethnic minorities.

Course: SS07

Prerequisite: SSB015

Credit Points: 12 Contact Hours: 3 per week

■ SSB025 YOUTH SERVICES 2

The way gender, ethnicity, class, geographical locations and disability affect the experience of young people as described through various forms of social commentary and research; current and emerging intervention strategies; their assumptions, strengths and limitations.

Course: SS07

Prerequisite: SSB016

Credit Points: 12 Contact Hours: 3 per week

■ SSB026 FIELDWORK PRACTICE 1

A two-stage program of pre-placement tutorials, a ten-week block placement (or negotiated equivalent) in a human service setting offering a professionally supervised, contracted learning experience of human service work. Students acquire and integrate critical human service competencies, attitudes and knowledge. Note: Students who fail to achieve a satisfactory standard of performance on placement are liable to exclusion from the course.

Course: SS07

Prerequisites: Enrolment in the Bachelor of Social Science (Human Services). All preceding subjects are prerequisites/Corequisites at the discretion of the course coordinator and field education coordinator.

Contact Hours: 360 hours over 10 weeks

■ SSB027 COMMUNITY WORK

Community work as a distinct intervention skill; the background to community work in Australia; models of community work; basic skills and techniques are developed: entering a community; building community involvement; developing community action; managing common problems.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB028 AUSTRALIAN POLITICAL STRUCTURES & INSTITUTIONS

The application of a contemporary human services framework to Australian political structures and institutions; social policy development with reference to the delivery of human services; aspects of the Australian economy and industrial system relevant to the human services practitioner.

Course: SS07

Prerequisite: SSB004

Credit Points: 12 Contact Hours: 3 per week

■ SSB030 CHILD & FAMILY SERVICES 3

An overview of current services and the frameworks, assessment and intervention skills necessary for human service work with parents in the following contexts: child protection, alternative care, domestic violence, chemical dependency and adoption.

Course: SS07

Prerequisite: SSB020

Credit Points: 12 Contact Hours: 3 per week

■ SSB031 DISABILITY SERVICES 3

Policies, legislation and programs which impact upon people with a disability reviewed at Federal, State and Local government levels; analysis of international influences on the Australian scene; policy areas on disability, income maintenance, housing, education, transport, employment, etc.

Course: SS07

Prerequisite: SSB021

Credit Points: 12 Contact Hours: 3 per week

■ SSB032 CORRECTIVE SERVICES 3

The Queensland Corrective Services Commission: social and political influences on correctional policy; statutory responsibilities and limitations of corrections; communication and organisational change.

Course: SS07

Prerequisite: SSB022

Credit Points: 12 Contact Hours: 3 per week

■ SSB033 AGED SERVICES 3

International trends in aged care; environmental issues and ageing; mental health and ageing; sexuality and ageing; ageing, work and retirement.

Course: SS07

Prerequisite: SSB023

Credit Points: 12

Contact Hours: 3 per week

■ SSB034 MULTICULTURAL SERVICES 3

This unit aims to develop the students' ability to critically evaluate Australia's social institutions for their relevance and fairness to ethnic minorities. Explores contemporary principles which direct service delivery as it relates to ethnic minorities and evaluate current promotion methods employed.

Course: SS07

Prerequisite: SSB024

Credit Points: 12

Contact Hours: 3 per week

■ SSB035 YOUTH SERVICES 3

The nature and implications of youth work within various contexts; different settings, eg. statutory and non-statutory, government and non-government focusses on youth policy development and analysis; contemporary policy and practice issues relating to the juvenile justice system.

Course: SS07

Prerequisite: SSB025

Credit Points: 12

Contact Hours: 3 per week

■ SSB036 FIELDWORK PRACTICE 2

A two-stage program of pre-placement tutorials, a ten week block placement (or negotiated equivalent) in a human service setting offering a professionally supervised, contracted learning experience of human service work. Students consolidate and extend critical human service competencies, attitudes and knowledge. Note: Students who fail to achieve a satisfactory standard of performance on placement are liable to exclusion from the course.

Course: SS07

Prerequisites: Enrolment in the Bachelor of Social Science (Human Services). All preceding subjects are prerequisites/Corequisites at the discretion of the course coordinator and field education coordinator.

Contact Hours: 360 hours over 10 weeks

■ SSB037 STUDIES IN HUMAN RIGHTS 3

Examines notions of collective or solidarity rights; applying to linguistic, religious, legal, social and political issues relating to ethnic minorities and indigenous peoples; explores the inter-relationship between human rights and global issues including peace, international security, sustainable development, environmental degradation and the national right to economic, social and cultural development.

Courses: HU20, SS07

Prerequisite: SSB006

Credit Points: 12

Contact Hours: 3 per week

■ SSB038 SOCIAL POLICY & SOCIAL CHANGE

Conceptualising economic, population and structural change in Australia; understanding emergent ideas about state and society; identifying and contrasting alternative social policies and strategies.

Course: SS07

Credit Points: 12

Contact Hours: 3 per week

■ SSB039 CONTEMPORARY SOCIAL POLICIES

Major debates in Social Policy will be explored. Analyses of Australia's response and the impact on redistribution in the Welfare State. Current analyses of health, housing, income security, legal, immigration and family policies at Federal, State and Local government level.

Course: SS07

Credit Points: 12

Contact Hours: 3 per week

■ SSB046 DIRECTED STUDIES IN HUMAN SERVICE PRACTICE & THEORIES

Students undertake a directed reading and study project within their chosen service area; with a high level of specificity within an area or areas of practice identified by each service coordinator. Content will be tailored to the specific service area.

Course: SS07

Credit Points: 12

Contact Hours: 3 per week

■ SSB047 ORGANISATIONAL SKILLS 1

Development of an empowering approach for functioning effectively as a member of a human service organisation; personal and interpersonal skills including career, time and stress management, working collaboratively with co-workers and managers, resolving disagreement and conflict, participating in change.

Course: SS07

Prerequisites: SSB003, SSB007

Credit Points: 12

Contact Hours: 3 per week

■ SSB048 ORGANISATIONAL SKILLS 2

The managerial task in human service organisations; managerial paradigms and an empowering managerial framework; developing collaborative work environments; recruitment, selection and development of workers; managing disagreement and conflict; introducing change.

Course: SS07

Prerequisite: COB018

Credit Points: 12

Contact Hours: 3 per week

■ SSB802 TECHNOLOGY & CULTURE

Investigates the social and cultural aspects of technology-practice; the relationship between social and cultural organisation and behaviour, and the technical aspects of human development; historical, anthropological, sociological and cultural perspectives are used to analyse the relationship between technology and culture.

Course: ED26

Credit Points: 12

Contact Hours: 3 per week

■ SSB803 SOCIAL PSYCHOLOGY

General study of applied social psychology and its relevance to a variety of professional roles and work environments; group dynamics and related concepts; analysing small group development; behaviours affected by stress or pressure, health, environmental design and work space.

Course: PU49

Credit Points: 12

Contact Hours: 3 per week

■ SSB804 PSYCHOLOGY & GENDER

Theories of gender; male and female; masculine and feminine; roles vs power; counselling issues; old and new paradigms; history of psychology of gender; sexuality; mothers and fathers; "psychology constructs the female"; psychology in patriarchal discourse; family therapy theory and feminist critiques; psychological constructs and the media; film and media; psychology of gender and power.

Course: SS07

Prerequisites: SSB003 or SSB932

Credit Points: 12

Contact Hours: 3 per week

■ SSB806 INTERPERSONAL & GROUP PROCESSES

Understanding relationships and small group dynamics with emphasis on skill development in listening, helpful responding, assertion, conflict resolution, disclosure, feedback; models of group development and roles lead to facilitation and leadership skills. Skills are applied and analysed outside the class.

Course: ED50

Credit Points: 12

Contact Hours: 3 per week

■ SSB807 HUMAN SEXUALITY

Sexuality; model strategies for dealing appropriately with sensitive, value-laden issues; personal comfort in discussion of sexual matters; aspects of sexuality relevant to the student's own development; the sexual development of adolescents; issues of social concern such as sexual abuse of children.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ SSB890 PSYCHOLOGY

Students critically evaluate statements about behaviour; state and give examples of higher order motives and apply this knowledge to work and interpersonal situations; understand factors which cause people to misperceive others, and explain how to minimise misperception; use of effective social skills in interpersonal and group settings; understand theories of attitude, change and know implications of changing the behaviour of others; use skills necessary for starting a successful small business.

Course: PU45

Credit Points: 8 Contact Hours: 3 per week

■ SSB903 SOCIOLOGY FOR HEALTH PROFESSIONALS

An examination of sociology's origins, theories, perspectives and methodologies with reference to health and wellness, illness and premature mortality; empirical data on mortality and morbidity in contemporary Australia are presented and subjected to sociological analyses to indicate social patterns, processes promoting or constraining levels of health.

Course: PU42

Credit Points: 6 Contact Hours: 3 per week

■ SSB904 SOCIOLOGY OF HEALTH & ILLNESS

This unit analyses in detail the statement that: "The major determinants of health and illness are social, cultural, behavioural, occupational, regional, environmental and parental." Indigenous, migrant and rural health determinants in Australia are investigated. The importance of a social and cultural approach to environmental health issues is highlighted.

Course: PU42

Credit Points: 6 Prerequisite: SSB903
Contact Hours: 3 per week

■ SSB905 PSYCHOLOGY FOR HEALTH PROFESSIONALS

Presents particular aspects of the theories, skills and approaches of interpersonal, social and organisational psychology which are relevant to nursing practice. Topics include: humanistic, cognitive, behavioural and social models for understanding the individual; communication processes; self-concept and self-esteem; protection of the ego; the impact of emotions and beliefs on health behaviour; and interpersonal communication skills.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ SSB906 SOCIOLOGY FOR HEALTH PROFESSIONALS

Sociological theories and methods are studied to identify and analyse social relationships, social processes and social patterns relating to the social origins of illness and wellness; analysis trends in morbidity and mortality in society which are not randomly distributed but associated with social structural variables such as ethnicity, gender, social class, age and geographical location; examines the health care system internally and in relation to its public use and its effectiveness in addressing contemporary health issues in Australia.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

■ SSB907 PSYCHOLOGY FOR ENGINEERS

Introductory psychology; basic elements of transactional analysis and their application to work settings; self-concept and its relationship to socially effective behaviour; attitudes and attitude change; the dynamics of supervision in the work place.

Courses: ME44, ME45

Credit Points: 4 Contact Hours: 2 per week

■ SSB908 BEHAVIOURAL SCIENCE

An introduction to perception, motivation, individual personality, social attitudes, group interaction and dynamics; social motives and the sources and resolution of conflict; the practical application and limitations of behavioural studies readings and case studies drawn from the building industry; the job and responsibilities of management; the functions and role of the manager including planning, organisation, control, budgeting and decision-making; styles of leadership; employee selection training, appraising and promotion; worker efficiency and working conditions.

Courses: CN31, CN32

Credit Points: 6 Contact Hours: 3 per week

■ SSB910 INTRODUCTORY PSYCHOLOGY FOR HEALTH PROFESSIONALS

A course of lectures and tutorials on psychology as a science and interpersonal behaviour and skills and its relevance to the radiographer.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ SSB911 GENERAL PSYCHOLOGY

This course is designed to give optometry students an ability to demonstrate effective interpersonal skills in relation to patients and other health professionals; indicate bases of individual differences; diagnose patient needs and respond appropriately; state causes of stress, effects on health, and indicate appropriate techniques to reduce stress; indicate techniques that may be used to modify patient attitudes.

Course: OP42

Credit Points: 4 Contact Hours: 3 per week

■ SSB912 PSYCHOLOGY

An introduction to general psychology providing limited skills training in some areas for personal development; research approaches; learning and motivation; individuals and groups; the development of groups and the assessment of individuals within groups; perception, human development, and stress management, individual differences, psychological testing and personality.

Courses: HM42, PU49

Credit Points: 12 Contact Hours: 3 per week

■ SSB913 DEVELOPMENTAL PSYCHOLOGY

A basis for the study of the promotion of psychological health of individuals at differing developmental stages; psychological adjustment, developmental theories, developmental aspects of childhood, adolescence, middle and old age and specific areas such as sexual development, death and dying; relationships to work and professional environments.

Course: SS07

Credit Points: 12 Prerequisite: SSB003
Contact Hours: 3 per week

■ SSB914 PSYCHOLOGY

Students are taught to critically evaluate statements about behaviour; state and give examples of higher order motives, and apply this knowledge to work and

interpersonal situations; understand factors which cause us to misperceive others, and explain how to minimise misperceptions; use effective social skills in interpersonal and group settings; understand theories of attitude, change and know implications for changing the attitudes of other persons; know theories of behaviour change and understand implications for changing the behaviour of others; use skills to reduce interpersonal stress; emphasis is on the role of environmental health officers and occupational safety and health professionals.

Courses: PU42, PU44, PU45

Credit Points: 8 Contact Hours: 3 per week

■ SSB915 SOCIAL PSYCHOLOGY

Philosophy of social science; historical perspective; social and self and personal space; social perception; research methodology; stereotypes and prejudice; conformity; persuasion; attraction and intimacy; help seeking and giving; aggression; leadership.

Course: SS07 Prerequisites: SSB003 or SSB912

Credit Points: 12 Contact Hours: 3 per week

■ SSB917 PHYSIOLOGICAL & HEALTH PSYCHOLOGY

The physiological and cognitive bases to human behaviour; the nervous and endocrine systems of the body, the brain and its functioning; consciousness and altered states of consciousness; hormones and drugs and their effects on emotional expression; the relation of physiological and cognitive factors to motivation and behaviour.

Course: SS07

Prerequisites: SSB912 or 96 credit points of approved study.

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: SSB934

■ SSB918 COUNSELLING FOR HEALTH PROFESSIONALS

A study of the psychology of illness and the counselling process for advanced radiographers.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

■ SSB921 COUNSELLING & CRISIS MANAGEMENT

The basic theories and principles of crisis intervention methodology; the roles of nurses in counselling clients who are currently experiencing difficulties; appropriate interpersonal and specific counselling skills to assist with this therapeutic communication process; short term strategies in crisis management.

Course: NS48

Credit Points: 8 Contact Hours: 3 per week

■ SSB922 SOCIAL & CULTURAL ASPECTS OF HEALTH

A broad overview of the key theoretical and practical questions currently being addressed in the field of the sociology of health and illness providing a framework for individuals wishing to develop professional skills in health education.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ SSB930 PSYCHOLOGICAL RESEARCH METHODS

An overview of the purposes and strategies of research; elementary research design; operationalising variables; descriptive statistics; distributions; measures of central tendency and spread; standard scores and percentiles; comparing variables through correlation will be addressed; using the computer.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB931 HUMAN LEARNING AND MOTIVATION

Classical conditioning; operant conditioning; reinforcement theory; social learning theory; early approaches to motivation, Freud and instinct theories, ethology; biological theories of motivation; intrinsic and extrinsic motivation; motivation & personality theory; the work of Murray; Atkinson and Feathers expectancy theory; Nuttin's theory; Bandura and incentive motivation.

Course: SS07 Prerequisites: SSB003, SSB932

Credit Points: 12 Contact Hours: 3 per week

■ SSB932 INTRODUCTION TO PSYCHOLOGY B

Introduction to physiological, cognitive and developmental bases to human behaviour. An overview of biology and behaviour; the brain, neurones and neurotransmitter; alcohol and other drugs and neurotransmitters; sensation and perception; memory and cognition; human motivation and emotion; personality; an overview of human development; theoretical and research approaches to human development; research questions about adulthood.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB933 COGNITIVE PSYCHOLOGY

History and development of cognitive psychology and cognitive science; the bases of cognition; perception; representation of knowledge; memory; the development of expertise, problem-solving and reasoning; cognitive development; computer models of cognition; applications of cognitive psychology.

Course: SS07 Prerequisites: SSB003 or SSB912

Credit Points: 12 Contact Hours: 3 per week

Incompatible with: SSB937

■ SSB934 BIOLOGY & BEHAVIOUR

The physiological and cognitive bases to human behaviour; the nervous and endocrine systems of the body, the brain and its functioning; consciousness and altered states of consciousness; hormones and drugs and their effects on emotional expression; and overall the relation of physiological and cognitive factors to motivation and behaviour. Some attention is also given to comparative psychology, with reference to animal/human behaviour.

Course: SS07 Prerequisites: SSB003 or SSB912

Credit Points: 12 Contact Hours: 3 per week

■ SSB936 PERSONALITY & PSYCHOPATHOLOGY

The concept of personality and individual differences from the viewpoint of theory, research and assessment/application; functional and dysfunctional aspects of personality; the integration of traditional theoretical perspectives – psychoanalytic, trait, humanistic and social-cognitive – with more modern perspectives; research methods and applications in personality studies, validity and reliability of personality profiles; biological issues in behaviour, environmental and cultural effects on personality including workplace situations, life style changes.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

■ SSB937 APPLIED COGNITIVE PSYCHOLOGY

An introduction to cognitive psychology; perception processes in cognition; memory processes; problem-solving and decision-making; the development of intelligence application of cognitive psychology. Artificial intelligence, ergonomics and job design also included as topics.

Courses: IF52, IF54, IS43, IT20

Prerequisites: SSB912 or 96 credit points of approved study.

Credit Points: 12 **Contact Hours:** 3 per week
Incompatible with: SSB933

■ SSB939 ALCOHOL & OTHER DRUG STUDIES

An advanced unit giving special attention to the following: what is a drug?; an overview of licit and illicit drugs; states of consciousness; models of use: assessment; and referral practices, theories and research into dependency, historical examples of drug use; Australian drug use; social reinforcement of drug use; gender issues; cultural issues; physiology of drug use; power issues; crisis intervention; legal issues; mythology and drug use.

Course: SS07 **Prerequisites:** SSB934, SSB946
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB941 PSYCHOLOGICAL ASSESSMENT

Theory and principles underlying psychological or personal assessment and testing are involved; applications are primarily examined in personnel or organisational areas (such as the assessment of ability, interests, values, job satisfaction, commitment and morale, and other attitudinal measures); issues in clinical and counselling assessment using interviews for selection, work analysis, counselling and appraisal; practical application including project or assignment work involving a short organisational placement.

Course: SS07
Prerequisites: 36 credit points of second or third year psychology units.
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB942 INDEPENDENT STUDY (PSYCHOLOGY)

Students, either individually or in small groups, undertake one or several approved learning activities within an approved content area. Activities could include literature reviews, research (mini-thesis), project, practicum (work placement and report), classroom presentation to a selected class, and other activities.

Course: SS07
Prerequisites: 36 credit points of second or third year psychology units.
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB943 OCCUPATIONAL & VOCATIONAL PSYCHOLOGY

The well-being and productivity of individuals and groups in the work force; the psychological and social effects of unemployment; career planning and choice; the transition from school or college to work; adjustment at work; interests, values and ethics inherent in or related to the different workplaces and professions; theories and models of career choice and development; health and adjustment at work; unemployment.

Course: SS07
Prerequisites: 36 credit points of second or third year psychology units.
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB944 INDUSTRIAL & ORGANISATIONAL PSYCHOLOGY

This unit examines human factors in job design, occupational health and safety, work and personal motivation, the assessment of suitability and/or of performance, and the qualities needed in career advancement.

Course: SS07
Prerequisites: SSB950 and at least one of SSB017 or SSB915
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB946 COUNSELLING THEORY & PRACTICE 2

Counselling issues and approaches in relation to loss and grief, post-traumatic stress, rehabilitation, drugs and substance abuse, relationship counselling, separation, sexual abuse, suicide, cultural differences, psychosis; current approaches to counselling including process work, brief psychotherapy, language and the construction of problems; group therapy; group counselling; analytic psychotherapy; ethical, social and moral issues in counselling.

Course: SS07 **Prerequisite:** SSB008
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB948 ADVANCED DEVELOPMENTAL PSYCHOLOGY

History of research approaches with primary attention to the 1980's and 1990's, in each of the language, cognitive, moral and social development areas; child and youth and young adult development and the relation of progress and learning to whole of life development in the four areas; applications to crime and deviance (mainly moral and social development issues), education and culture (mainly language and cognition) and the workplace (mainly cognition, moral and social development aspects).

Course: SS07
Prerequisites: 36 credit points of second level psychology units including SSB005 or SSB913 as one of the units.
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB949 INTRODUCTION TO FAMILY THERAPY

Major concepts of systemic theory as applied to families; major models of family therapy eg. structural, strategic, systemic, solution focused; assessment of family structures and dynamics; using therapeutic teams eg. reflecting team; contemporary issues in family work eg. gender, ethnicity, changing family foundations; specific ethical issues eg. confidentiality, record keeping, interaction with other systems, referral management; family dynamics.

Course: SS07 **Prerequisite:** SSB008
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB950 RESEARCH DESIGN & DATA ANALYSIS

An overview of the scientific method; the use of the null hypothesis; Type I and Type II errors; issues of control; underlying assumptions; basic experimental and non-experimental design; inferential statistics; tests; simple regression; one-way analysis of variance; correlations and correlational analysis, computer-based statistical analysis; introduction to non-parametric analyses including Chi-Square and the analysis of ranked data. Introduction to the use of SAS or SPSS in statistical analysis.

Course: SS07 **Prerequisite:** SSB930
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB951 ADVANCED STATISTICAL ANALYSIS

A specialist statistical program is taught for the preparation and support of students using quantitative procedures for research; procedures are practised on data available in ACPRI archives and/or from school and other research projects and will prepare for the collection of their own database for their major project; may be offered to postgraduate students enrolled in other QUT Schools and Faculties.

Course: SS07 **Prerequisite:** SSB950
Credit Points: 12 **Contact Hours:** 3 per week

■ SSB953 SPECIAL TOPIC

Specifically, as determined by the special topic presenter in conjunction with the Head of School; usually at 'third year' level.

Course: SS07

Prerequisites: At least 144 credit points at degree level and specific units as required

Credit Points: 12 Contact Hours: 3 per week

■ SSB960 SOCIOLOGICAL THEORY

The major approaches to social theory, focus on: social explanations, social structures, cultural structures and social organisations.

Course: SS07

Prerequisite: SSB000

Credit Points: 12 Contact Hours: 3 per week

■ SSB961 AUSTRALIAN SOCIETY: INTRODUCTION TO SOCIOLOGY

Placing sociology in its own socio-historical context, tracing the origins and development of the discipline and identifying the forces that shaped the various perspectives and theories of sociology and the associated research methodologies. Major theoretical perspectives are introduced, compared and contrasted, and sociological concepts, theories and debates are discussed within the context of the analysis of contemporary Australia. A particular emphasis in the course is directed towards those factors that appear to promote, constrain or influence social stability, social change and social inequality.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

■ SSB969 COMPARATIVE SOCIOLOGICAL ANALYSIS

Contemporary forms of theoretical analysis and methodology; the fundamental theoretical tools which underpin different methods of research and analysis.

Course: SS07

Prerequisite: SSB960

Credit Points: 12 Contact Hours: 3 per week

■ SSB970 ECONOMIC SOCIOLOGY

The relations between the economy and other social institutions such as the State, the labour market, and the family.

Course: SS07

Prerequisite: SSB000

Credit Points: 12 Contact Hours: 3 per week

■ SSB971 POLITICAL SOCIOLOGY

Key concepts such as the modern state, participation; democracy; citizenship power; authority; conflicts; and political movements.

Course: SS07

Prerequisite: SSB000

Credit Points: 12 Contact Hours: 3 per week

■ SSB980 ADVANCED SOCIOLOGICAL THEORY

Wide range of contemporary sociological theories; current debates and critiques of leading social theorists.

Course: SS07

Prerequisite: SSB960

Credit Points: 12 Contact Hours: 3 per week

■ SSB981 ACTION RESEARCH & PROFESSIONAL PRACTICE

The implementation and monitoring of change within areas of professional practice.

Course: SS07

Prerequisite: SSB969

Credit Points: 12 Contact Hours: 3 per week

■ SSB989 HEALTH & THE LIFE-CYCLE

An examination of changing patterns of individual wellness, illness, and mortality often coinciding with life-cycle changes or 'Rites of Passage'; the social, cultural, anthropological and technological aspects of the pre-birth and post-death phases; analysis of the

cyclical process; compared and contrasted with a psychological human developmental approach.

Courses: ED26, ED50

Credit Points: 12

Contact Hours: 3 per week

■ SSN000 COUNSELLING STUDIES 1

Provides a conceptual overview of the history of counselling and the most significant contemporary developments in the field; selected models of brief problem-oriented and solution-focussed therapies, and their application across a variety of counselling contexts; the analysis of human problems in lifespan developmental and social contexts, and on the conceptual understanding, practical skills, and critical evaluation of the above therapeutic approaches.

Course: SS12

Credit Points: 12

Contact Hours: 3 per week

■ SSN001 PROFESSIONAL STUDIES 1

The development of foundational interpersonal and relationship-building skills which are viewed as relevant to the counselling process regardless of theoretical orientation. Interpersonal skills and insights are developed through an introduction to groupwork, together with micro-skills workshops involving interpersonal process recall. The development of ethical practices in counselling and an ongoing commitment to critical reflection on counselling (e.g. the ideology of counselling, the status of counselling knowledge, and issues relating to gender, ethnicity and class).

Course: SS12

Credit Points: 12

Contact Hours: 3 per week

■ SSN002 COUNSELLING STUDIES 2

The historical development of psychoanalysis; psychodynamics in counselling practice; hypnosis and unconscious phenomena in counselling; scientific credibility of psychoanalytic psychotherapy; assessment of neurosis and psychosis in counselling.

Course: SS12

Prerequisites: SSN000

Credit Points: 12

Contact Hours: 3 per week

■ SSN003 GROUP STUDIES

The development of skills and experience in organising and facilitating group work, in the context of personal support and therapeutic groups. Establishing group norms; facilitating stages of group development; responding to member behaviour and facilitator interventions; planning, implementing and evaluating ethical group work practices; dealing with defensiveness and hidden agendas; applying brief solutions-focussed and other counselling theory to groups; examining the notion of the "therapeutic milieu".

Course: SS12

Prerequisites: SSN001

Credit Points: 12

Contact Hours: 3 per week

■ SSN004 COUNSELLING STUDIES 3

The theory and research relating to family/marital developmental transitions, contemporary changes to family life, and the field of relational or systemic therapies. A selective emphasis is made on models which build on the knowledge and skills developed in SSN000 and SSN002. Thus, major emphases will include solution-oriented and psychodynamic approaches to relationship counselling.

Course: SS12

Prerequisites: SSN002

Credit Points: 12

Contact Hours: 3 per week

■ SSN005 RESEARCH METHODS AND ISSUES

Different approaches to, and perspectives on research used across the disciplines of social science. Philosophical and ethical issues will be related to questions of methodology. The unit consists of formal teaching

input from lecturers, together with a seminar component in which students will present preliminary proposals for their independent project for group discussion and feedback.

Prerequisites: SSN002 (for Counselling major only)
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN006 PROFESSIONAL STUDIES 2

This unit continues the themes of integration and reflection introduced in SSN001. It has two related parts: (a) The experience of group supervision is used as a context for reflection, critical analysis and integration in relation to both specific counselling skills and broader issues of professional practice (e.g. professional ethics, case management, assessment and referral). (b) As well as meeting fortnightly for group supervision, students attend seminars on selected topics and issues relating to the theme of critical reflection on counselling practice. This will involve perspectives from outside traditional counselling discourse (e.g. sociology, history, political theory, gender studies) and will focus on their relevance and implications for counselling practice. The student's experience of ongoing casework and the supervisory process will be used to focus critical reflection in these areas.

Course: SS12 **Prerequisites:** SSN001
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN007 PROFESSIONAL STUDIES 3

Continuation of SSN006. Additionally, however, there is an emphasis on students learning and demonstrating supervision skills. The other major aspect of the subject consists of a graduate seminar in which students will present work based on their research projects.

Prerequisites: SSN005
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN008 PROJECT

Students undertake an individual project of theoretical and/or empirical research in a selected area of counselling. The project is supervised by a member of the teaching staff. The completed project is to be presented in the form of a dissertation of not more than 15,000 words.

Course: SS12 **Prerequisite:** SSN006
Credit Points: 36

■ SSN009 FAMILY THERAPY PRACTICE

This unit builds upon and extends the family therapy concepts and skills provided in SSN004. Greater emphasis is placed on tailoring a family therapy role to the needs of the student's individual work context. Where practicable, students will also have the opportunity to participate in the actual practice of family therapy sessions in the School's Family Therapy and Counselling Clinic. Students will either conduct therapy sessions under supervision, or participate as members of consulting teams.

Course: SS12 **Prerequisites:** SSN004
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN010 CAREER COUNSELLING

Theoretical approaches to career guidance; resources and information for career guidance; the development and implementation of career education programs; and specific counselling skills related to career guidance. Major areas of study will include developmental theory, contemporary changes to the world of work (e.g. industrial relations, workplace changes) and computer applications (e.g. the Job and Course Explorer Program). Provision is made for students to carry out independent research in the field.

Course: SS12 **Prerequisites:** SSN000
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN011 INDEPENDENT STUDY

Students may elect to undertake an individual reading or research studies in an area of counselling which is of personal or professional interest, and which is not covered in other parts of the course. The project must be approved by the course co-ordinator, and will be supervised by a member of staff, with whom the student will negotiate the precise topic and mode of assessment.

Course: SS12 **Prerequisites:** SSN000
Credit Points: 12

■ SSN012 COUNSELLING AND ORGANISATIONS

Examination of helping organisations as bureaucracies; organisational responses to social change; stress within helping organisations; issues of teamwork among professional helpers; and the negotiation of effective counselling roles within organisations.

Course: SS12 **Prerequisites:** SSN000
Credit Points: 12 **Contact Hours:** 3 per week

■ SSN013 ADVANCED COUNSELLING STUDIES

This unit provides for advanced studies in a chosen area of counselling theory and practice. It is designed to either provide a greater depth of study in one of the major theoretical covered in the course (e.g. brief therapy, psychodynamic therapy, group work) or to allow specialised studies in orientations which are not heavily emphasised in the course. Such areas could include experiential therapies (e.g. Gestalt, Process-Oriented Psychotherapy, Psychodrama), Art Therapy, Couples Therapy, etc. The particular focus of this elective in any year would depend upon student interest plus the availability of suitable staff and resources.

Course: SS12 **Prerequisites:** SSN004
Credit Points: 12 **Contact Hours:** 3 per week

■ SSP005 PRACTICUM 2

Advanced skill training workshops; supervised counselling experience involving work with clients; interaction of students and supervisor.

Course: SS10 **Prerequisite:** SSP001
Credit Points: 8

■ SSP006 COUNSELLING: A SOCIOLOGICAL PERSPECTIVE

Sociological analysis of counselling and the helping process in terms of the functions they serve for society; the nature of helping and the helping process; sociological conceptions of the individual; social control function of helping; medicalisation and professionalisation of helping; the effect of organisation on the helping process.

Course: SS10 **Prerequisite:** SSP001
Credit Points: 8 **Contact Hours:** 3 per week

■ SSP007 THEORY & PRACTICE OF COUNSELLING 3

Historical development of psychoanalysis and analytic theory; psychodynamics in counselling practice; hypnosis and conscious phenomena in counselling; scientific credibility of psychoanalytic and analytic psychotherapy; neurosis and psychosis in counselling.

Course: SS10 **Prerequisite:** SSP004
Credit Points: 12 **Contact Hours:** 3 per week

■ SSP009 CAREER GUIDANCE & COUNSELLING

Theoretical approaches to career guidance; developmental theories and opportunity structure theories; resources and information for career guidance; career education programs; independent research.

Course: SS10 **Credit Points:** 8 **Contact Hours:** 3 per week

■ SSP012 THE COUNSELLOR & THE ORGANISATION

Helping organisations as bureaucracies; organisational response to social change; stress within helping organisations; teamwork among professional helpers; counsellor roles.

Course: SS10 Prerequisite: SSP001
Credit Points: 8 Contact Hours: 3 per week

■ SSP013 INDEPENDENT STUDY

Independent counselling-related studies under the supervision of a member of staff. Studies must be approved by the course coordinator.

Course: SS10 Prerequisite: SSP007
Credit Points: 8 Contact Hours: 3 per week

■ SSP014 FAMILY THERAPY 1

Self-awareness in family counselling; formation and models of the family; family systems perspectives and counselling approaches.

Course: SS10 Prerequisite: SSP007
Credit Points: 8 Contact Hours: 3 per week

■ SSP016 ADVANCED PRACTICUM

Further supervision of counselling work using a group process and a focus on student's work context, personal issues and professional side.

Course: SS10 Prerequisite: SSP005
Credit Points: 8

■ SSP017 COUNSELLING IN GROUPS

Organising and facilitating group work; establishing group norms; stages of group development; member behaviour and facilitator interventions; models and ethics of group work.

Course: SS10
Credit Points: 8 Contact Hours: 3 per week

■ SVB121 LAND SURVEYING 1

Principles of surveying; surveying instrumentation; traversing; levelling; elements of tachemetry; contouring; elementary theory of error; plane surveying computations.

Courses: IF52, SV34
Credit Points: 13 Contact Hours: 6 per week

■ SVB212 DATA PRESENTATION 2A

Developing drafting skills; introduction to engineering survey drafting and computer graphics.

Course: IF52 Prerequisite: SVB111
Co-requisite: SVB226
Credit Points: 2 Contact Hours: 1 per week

■ SVB226 LAND SURVEYING 2

Plane surveying computations; detail surveying; reconnaissance surveying; route location; curve theory; setting out surveys; earthworks computation; elements of cadastral surveying.

Courses: IF52, SV34 Prerequisite: SVB121
Co-requisite: SVB211
Credit Points: 13 Contact Hours: 6 per week

■ SVB270 LAND ADMINISTRATION 1

Introduction to elements of law; law relating to land title and registration; crown land administration in Queensland.

Courses: IF52, SV34
Credit Points: 6 Contact Hours: 3 per week

■ SVB306 SURVEYING

Introductory surveying methods, instrumentation; use of level and theodolite for gathering and setting out data points, distance measurement, circular curves, areas and volumes; introductory photogrammetry and digital terrain models.

Course: CE42
Credit Points: 8 Contact Hours: 3 per week

■ SVB311 DATA PRESENTATION 3

Cadastral plan drawing; introduction to cartography; cartographic reproduction; mapping agencies.

Courses: IF52, SV34 Prerequisite: SVB111
Credit Points: 5 Contact Hours: 3 per week

■ SVB331 OBSERVATIONS & ADJUSTMENTS 1

Review of relevant statistical concepts; theory of observations and of random errors; linear and nonlinear functional models, the stochastic model, the law of propagation of variances, the error ellipse; practical applications.

Courses: IF52, SV34
Prerequisites: MAB495, MAB499
Co-requisite: MAB795
Credit Points: 4 Contact Hours: 2 per week

■ SVB343 PHOTOGRAMMETRY 1

Introduction to photogrammetry; photogrammetric optics; aerial photography; geometry and use of single photographs; geometry and use of stereogram; half-day visit to an aerial survey/mapping organisation.

Courses: IF52, SV34 Prerequisite: PHB170
Credit Points: 6 Contact Hours: 3 per week

■ SVB352 LAND STUDIES A

Introductory ecology; conservation of resources; introduction to physical aspects of land; assessment of physical land parameters; land classifications; land utilisation; sieve mapping and land use surveys; regional geography; students are required to undertake a full-day ecology field trip.

Courses: IF52, SV34
Credit Points: 12 Contact Hours: 3 per week

■ SVB393 LAND SURVEYING 3

Cadastral surveying; field astronomy; off-campus field work.

Courses: IF52, SV34
Prerequisites: MAB495, SVB121, SVB270
Co-requisites: SVB311, SVB573
Credit Points: 10 Contact Hours: 5 per week

■ SVB399 INDUSTRIAL EXPERIENCE 3

At least six weeks employment, approved by the Head of School. Students must submit an industrial experience record form, completed by both student and employer.

Course: SV34 Contact Hours: 6 weeks

■ SVB412 CARTOGRAPHIC PRACTICE

Reprographic processes; colour systems, colour separation and colour correction; digital mapping techniques; cartographic data structures; geographical surfaces.

Courses: IF52, SV34
Prerequisites: SVB211, SVB311
Credit Points: 5 Contact Hours: 3 per week

■ SVB430 LAND SURVEYING 4

Primary traversing; classical triangulation; trigonometrical levelling; precise levelling; off-campus field work.

Courses: IF52, SV34 Prerequisite: SVB121
Co-requisites: SVB431, SVB442
Credit Points: 9 Contact Hours: 4 per week

■ SVB431 OBSERVATIONS & ADJUSTMENTS 2

Introduction to least squares adjustment; standard problems one and two; extensive practical applications to linear and non-linear problems with both univariate data sets.

Courses: IF52, SV34 Prerequisite: SVB331
Credit Points: 4 Contact Hours: 2 per week

■ SVB442 GEODETIC COMPUTATIONS

Plane coordinate computation; geometrical geodesy, geometry of spheroid, computation on the spheroid; theory of map projections; the transverse mercator and UTM; computations on the Australian Map Grid.

Courses: IF52, SV34

Prerequisites: MAB495, SVB121

Co-requisite: SVB430

Credit Points: 9 Contact Hours: 4 per week

■ SVB443 PHOTOGRAMMETRY 2

Principles of construction; operation of analogue stereoplotters; aerial triangulation; terrestrial photogrammetry; analytical photogrammetry; half-day visit to an aerial survey/mapping organisation.

Courses: IF52, SV34

Prerequisites: MAB795, SVB343

Co-requisite: SVB431

Credit Points: 11 Contact Hours: 6 per week

■ SVB451 LAND STUDIES B

Introduction to theory of price; location theory; land economics.

Course: SV34

Credit Points: 5 Contact Hours: 3 per week

■ SVB470 LAND ADMINISTRATION 2

Introduction to government and public administration; Australian public land administration; private sector land administration.

Courses: IF52, SV34

Credit Points: 4 Contact Hours: 2 per week

■ SVB473 LAND INFORMATION SYSTEMS 1

Need for a computerised land information system review of cadastral systems; land title systems; the multipurpose cadastre and automation; survey requirements for land information systems; design principles, retrieval techniques.

Courses: IF52, SV34

Prerequisites: CSB294, SVB211, SVB393

Co-requisites: SVB393, SVB573

Credit Points: 5 Contact Hours: 3 per week

■ SVB535 LAND SURVEYING 5

Hydrographic surveying; topographic surveying.

Courses: IF52, SV34

Prerequisites: MAB495, SVB121, SVB430

Credit Points: 5 Contact Hours: 3 per week

■ SVB551 LAND VALUATION

Concepts and purposes of valuation; improvements; urban and rural valuation; interest in land; compensation; legislation affecting land valuation; land valuation practice.

Courses: IF52, SV34

Prerequisite: SVB451

Credit Points: 6 Contact Hours: 3 per week

■ SVB561 LAND DEVELOPMENT PRACTICE 1

Land development as an economic activity; surveys for subdivision design; site planning; land use determinants; political, economic, social and physical; traffic aspects affecting subdivision design; case studies.

Courses: IF52, SV34

Prerequisites: SVB352, SVB451

Co-requisites: CEB364, SVB551, SVB574

Credit Points: 10 Contact Hours: 6 per week

■ SVB563 LAND INFORMATION SYSTEMS 2

Data acquisition, storage and management; spatial identifiers; cartographic display and generalisation in automated systems; implementation of a system.

Courses: IF52, SV34

Prerequisite: SVB473

Co-requisite: SVB412

Credit Points: 4 Contact Hours: 2 per week

■ SVB571 CADASTRE

Complex and modern problems involved in the cadastre.

Course: SV34

Prerequisite: SVB393

Credit Points: 4 Contact Hours: 2 per week

■ SVB573 LAND ADMINISTRATION 3

Queensland case law; legislation affecting land and the survey of land including the registration of interests in land, and statutory control of land development.

Courses: IF52, SV34

Prerequisite: SVB270

Credit Points: 6 Contact Hours: 3 per week

■ SVB574 LAND ADMINISTRATION 4

Introduction to rural and urban sociology; social aspects of land administration.

Course: SV34

Credit Points: 4 Contact Hours: 2 per week

■ SVB634 TOPICS IN ENGINEERING SURVEYING

Network reliability; deformation surveys; subsidence monitoring; precision alignment and distance measurement; jig surveys; high rise buildings.

Course: SV34

Prerequisite: SVB431

Co-requisite: SVB639

Credit Points: 5 Contact Hours: 3 per week

■ SVB636 LAND SURVEYING 6

Geophysical surveying; mine surveying; field astronomical observation.

Courses: IF52, SV34

Prerequisites: PHB170, SVB430

Credit Points: 6 Contact Hours: 3 per week

■ SVB639 OBSERVATIONS & ADJUSTMENTS 3

Design, pre-analysis and optimisation followed by execution, adjustment and assessment of horizontal (two-dimensional) control networks, traverse and level networks (one-dimensional).

Course: SV34

Prerequisite: SVB431

Credit Points: 4 Contact Hours: 2 per week

■ SVB640 GEODESY

Introduction to history; definitions; gravity field of earth; level surfaces; spherical harmonics; variations of the gravity field; gravity measurements; geodetic reference systems; datum transformations; satellite geodesy; satellite doppler surveying; global positioning system; inertial surveying systems; geodynamics.

Course: SV34

Prerequisites: PHB170, SVB430, SVB442

Co-requisite: SVB639

Credit Points: 6 Contact Hours: 3 per week

■ SVB643 PHOTOGRAMMETRY 3

Numerical relative and absolute orientation; independent model and bundle methods of block adjustment for triangulation; close range photogrammetry including nonconventional techniques; analytical plotters including generation, manipulation and storage of digital data; use of micro and mini computers in analytical photogrammetry.

Course: SV34

Prerequisite: SVB443

Co-requisite: SVB431

Credit Points: 5 Contact Hours: 3 per week

■ SVB645 REMOTE SENSING

Definitions and major systems for remote sensing; characteristic spectral reflectance of objects and spectral response of sensors; remote sensing acquisition hardware; remote sensing satellites; thermography and radar; data processing for presentation and enhancement; cartographic correction of remote sensing data for systematic geometric error.

Courses: EE43, SV34

Prerequisite: SVB343

Credit Points: 5 Contact Hours: 3 per week

■ SVB664 LAND DEVELOPMENT PRACTICE 2

Preliminaries of development, data assembly, statutory approvals, elements of design, requirements of communication, hydraulic and energy services, development costs, controls of land development schemes; neighbourhood, residential, industrial estate, canal and reclamation estates, commercial and rural development schemes; design of small towns.

Course: SV34 Prerequisites: SVB561, SVB574
Credit Points: 10 Contact Hours: 6 per week

■ SVB670 LAND ADMINISTRATION 5

Organisation theory; development planning procedures; land development analysis.

Course: SV34 Prerequisites: SVB451, SVB470
Credit Points: 5 Contact Hours: 3 per week

■ SVB680 PROFESSIONAL PRACTICE

History of surveying and surveyors; the surveyor in relation to statutory authorities, civil, commercial and taxation laws; the surveyor as employer, employee, expert witness; surveyor-client-consultant relationships; professional ethics.

Course: SV34 Prerequisite: SVB470
Credit Points: 6 Contact Hours: 3 per week

■ SVB682 SEMINAR 2

Preparation and presentation of at least one technical seminar paper in a field germane to surveying.

Courses: IF52, SV34
Prerequisites: SVB282, successful completion of units totalling not less than 85 hours of weekly contact time.
Credit Points: 2 Contact Hours: 1 per week

■ SVB683 PROJECT

Undertake and report on an approved project in the field of surveying. Field trips on site or to local firms.

Course: SV34
Prerequisites: Successful completion of units totalling not less than 85 hours of weekly contact time.
Credit Points: 8 Contact Hours: 1 per week

■ SVB684 MAP PRODUCTION PLANNING

Planning of photogrammetric projects, specifications, control, costs accuracy; critical path method.

Course: SV34 Prerequisites: SVB412, SVB443
Co-requisite: SVB643
Credit Points: 5 Contact Hours: 3 per week

■ SVB685 PROJECT

Undertaking of a substantial mapping project utilising knowledge gained in photogrammetric, traditional and computer-assisted methods. The project may be topographic or thematic.

Course: SV34 Prerequisites: SVB311, SVB412
Co-requisite: SVB443
Credit Points: 16 Contact Hours: 4 per week

■ SVB688 PROFESSIONAL PRACTICE A

Preparing surveyors for professional practice either as employer or employee.

Courses: IF51, IF52
Prerequisites: Successful completion of units totalling not less than 100 hours of weekly contact time including SVB573.
Credit Points: 4 Contact Hours: 2 per week

■ SVB694 GEODESY 2

Review of matrices, the Jacobian matrix, orthogonal matrices; transformations, coordinate transformations; rotations in three dimensions, euler angles, datum transformations, the development of datums.

Course: SV34 Co-requisite: SVB640
Credit Points: 5 Contact Hours: 3 per week

■ SVB911 GRAPHIC DESIGN 1

Perception, development of awareness, a broad-based approach to design, including graphics, film, fabrics, industrial design. Sketching in pencil from nature, cast and other areas. Development of tones and textures using various media.

Course: SV34
Credit Points: 10 Contact Hours: 5 per week

■ SVB912 GRAPHIC DESIGN 2

Identification and statement of design problems and solutions; conceptualising in design; the study of colour; the abstract tools of design; composition, perspective, projections and layout.

Course: SV34 Prerequisite: SVB911
Credit Points: 9 Contact Hours: 4 per week

■ SVT443 PHOTOGRAMMETRY 3

The operation of stereoplotters; instruments; aerial triangulation; compilation of maps.

Course: SV24 Prerequisite: SVT343
Credit Points: 8 Contact Hours: 3 per week

■ SVT623 PROJECT MAPPING

The role of government and the private sector in project mapping; planning mapping projects.

Course: SV24 Prerequisites: SVT343, SVT443
Credit Points: 4 Contact Hours: 1.5 per week

■ SVT642 MAP PROJECTIONS 1

Special trigonometry and its application to map projections; projections using a sphere as reference surface.

Course: SV24 Prerequisite: SVT115
Credit Points: 8 Contact Hours: 3 per week

■ SVT742 MAP PROJECTIONS 2

Geodesy: geometry of ellipse and ellipsoid; gravity; geodesy in mapping; the traverse mercator projection, UTM and the Australian Map Grid; computations: geographic to grid and vice versa.

Course: SV24 Prerequisite: SVT642
Credit Points: 8 Contact Hours: 3 per week

■ SVT826 CARTOGRAPHIC ADMINISTRATION

Government and public administration; theory of organisations and its application to mapping agencies.

Course: SV24
Credit Points: 8 Contact Hours: 3 per week

■ SVT915 CARTOGRAPHY 3

Economics of standard mapping, sheet sizes, map specifications, map accuracy; use of orthophotos; thematic mapping; special cartographic techniques.

Course: SV24 Prerequisite: SVT815
Credit Points: 8 Contact Hours: 3 per week

■ SVT916 CARTOGRAPHY 4

Digital methods in cartography; compilation of data for computer-assisted cartography; coordinate systems and digitising; methods of display.

Course: SV24 Prerequisites: SVT315, SVT991
Credit Points: 8 Contact Hours: 3 per week

■ SVT945 REMOTE SENSING

Remote sensing; data and information; electromagnetic propagation; spectral sensitivity and response; remote sensing imagery.

Course: SV24 Prerequisite: SVT343
Credit Points: 8 Contact Hours: 3 per week

■ SVT992 COMPUTER GRAPHICS 2

Data for computer-assisted mapping; programming techniques for automated drafting; HP graphics language for driving plotters.

Course: SV24 Prerequisites: SVT315, SVT991
Credit Points: 8 Contact Hours: 3 per week

5

QUT Campus Maps

QUT Gardens Point

City Botanic Gardens

No vehicular entry

George St

Alice Street

Parliament
House





William St

Gardens Point Rd

under freeway car park

Captain Cook Bridge

Parking: University statutes apply

-  Disabled parking
-  Boom gate
-  Public telephone
-  Taxi/pick-up

24-hour computer facilities
Available in GH link, L Block level 2 and
(June 1995 onwards) Z Block level 4

Brisbane River



- A M Fraser Library
- Accountancy
- Accounting Legal Studies
- Administrative Services
- Arch, Interior/Indus Design
- Bookshop
- Buildings & Grounds Workshop
- Built Envtl & Eng Faculty Office
- Business
- Campus Administration
- Chancellery
- Chaplaincy
- Chemistry
- Child Care Centre
- Civil Engineering
- Comm & Organisational Studies
- Community Building
- Computing Science
- Computing Services
- Construction Management
- Counselling Centre
- Economics & Public Policy
- Electrical/Electronic Eng
- Electron Microscope Unit
- Equines
- Finance
- Finance & Facilities
- Geology
- Gymnasium
- Health Services
- Information Systems
- Information Technology
- International Students
- Kinder Theatre
- Law
- Life Science
- Marketing, Advertising & PR
- Mathematics
- Mechanical/Manufacturing Eng
- Media & Journalism
- Mgmt, Human Res & Lab Relns
- Old Government House
- Physics
- Plng & Landscape Arch
- Printing
- Old Conservatorium of Music
- Refectory
- Research & Advancement
- Science Faculty Office
- Security
- Sports Complex
- Structures Laboratory
- Student Administration
- Student Guild
- Surviving

Note: Relocations will continue during 1995

